

**FCC 15.247 & RSS-247  
(Permissive Change)  
2.4GHz Test Report**

**for**

**LG Electronics Inc.**

**222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do,  
17709 Republic of Korea**

**Product Name : Notebook Computer**  
**Model Name : (1)17Z90R (2)17ZD90R**  
**(3)17Z90S (4)17ZD90S**  
**Brand LG**  
**FCC ID : BEJNT-17Z90R**  
**IC : 2703H-17Z90R**

**Prepared by: : AUDIX Technology Corporation,  
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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## TEST REPORT (Permissive Change)

Applicant : LG Electronics Inc.  
Manufacturer : LG Electronics Inc.  
Factory : LG Electronics Nanjing New Technology Co., Ltd.  
EUT Description  
(1) Product : Notebook Computer  
(2) Model : (1)17Z90R (2)17ZD90R (3)17Z90S (4)17ZD90S  
(3) Brand : LG  
(4) Power Supply: DC 20V, 3.25A

### Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C  
RSS-Gen (Issue 5), Amendment 2, February 2021  
RSS-247 (Issue 2), February 2017

**Audix Technology Corp.** tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

**Audix Technology Corp.** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

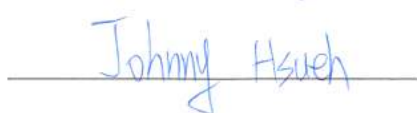
Date of Report: 2023. 10. 17

Reviewed by:



(Sabrina Wang/Administrator)

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## 1. REVISION RECORD OF TEST REPORT

| Edition No | Issued Date  | Revision Summary | Report Number |
|------------|--------------|------------------|---------------|
| 0          | 2023. 10. 17 | Original Report  | EM-F230498    |

## 2. SUMMARY OF TEST RESULTS

| Rule                                                                                                                                                                                                                                                                                                                                                                           |                              | Description                                             | Results                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-----------------------------|
| FCC                                                                                                                                                                                                                                                                                                                                                                            | IC                           |                                                         |                             |
| 15.207                                                                                                                                                                                                                                                                                                                                                                         | RSS-Gen §8.8                 | Conducted Emission                                      | <b>PASS</b>                 |
| 15.247(d)/<br>15.205                                                                                                                                                                                                                                                                                                                                                           | RSS-Gen §8.9<br>RSS-247 §5.5 | Radiated Band Edge and<br>Radiated Spurious Emission    | <b>PASS</b>                 |
| 15.247(a)(2)                                                                                                                                                                                                                                                                                                                                                                   | RSS-247 §5.2(1)              | DTS/Occupied Bandwidth                                  | <b>N/A</b> <sup>Note3</sup> |
| 15.247(b)(3)                                                                                                                                                                                                                                                                                                                                                                   | RSS-247 §5.4(4)              | Maximum Peak Output Power                               | <b>PASS</b>                 |
| 15.247(d)                                                                                                                                                                                                                                                                                                                                                                      | RSS-247 §5.5                 | Conducted Band Edges and<br>Conducted Spurious Emission | <b>N/A</b> <sup>Note3</sup> |
| 15.247 (e)                                                                                                                                                                                                                                                                                                                                                                     | RSS-247 §5.2(2)              | Peak Power Spectral Density                             | <b>N/A</b> <sup>Note3</sup> |
| 15.203                                                                                                                                                                                                                                                                                                                                                                         | ---                          | Antenna Requirement                                     | <b>Compliance</b>           |
| Note: 1. Decision rule according to the limit of the test standard chapter, the test value is lower than the limit specified in the test chapter, and it is judged as Pass.<br>2. The uncertainties value is not used in determining the result.<br>3. Due to the difference mentioned by cover letter don't influence on RF characteristics, so it is unnecessary to re-test. |                              |                                                         |                             |

### 3. GENERAL INFORMATION

#### 3.1. Description of Application

|                      |                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant            | LG Electronics Inc.<br>222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea                                                                                                            |
| Manufacturer         | LG Electronics Inc.<br>222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea                                                                                                            |
| Factory              | LG Electronics Nanjing New Technology Co., Ltd.<br>No.346, Yaixin Road, Economic & Technical Development Zone, Nanjing, China.                                                                                |
| Product              | Notebook Computer                                                                                                                                                                                             |
| Model                | (1)17Z90R (2)17ZD90R (3)17Z90S (4)17ZD90S<br>The difference between all models is different in the sales customers, color difference and component.<br>Note: Model 17Z90R and 17Z90S is for ISED application. |
| Configuration (HVIN) | 17Z90R-K, 17Z90R-N, 17Z90R-A, 17Z90R-R, 17Z90R-Q, 17Z90R-H, 17Z90R-T, 17Z90S-G, 17Z90S-V, 17Z90S-M, 17Z90S-C, 17Z90S-H                                                                                        |
| Brand                | LG                                                                                                                                                                                                            |

The model 17Z90R and 17Z90S series has following different configuration and components, and the details are as follows:

| Difference<br>Configuration (HVIN) |          | Main Board            | GPU                     | Battery          | CPU                                        | TPM (Trusted Platform Module) | Panel Touch Function | Antenna                                 |  |
|------------------------------------|----------|-----------------------|-------------------------|------------------|--------------------------------------------|-------------------------------|----------------------|-----------------------------------------|--|
| Original                           | 17Z90R-K | ROYAL MAIN B/D        | Intel Iris Xe Graphics  | LBV7227E (80 Wh) | Intel, i7-1360P<br>Intel, i5-1340P         | Not Support                   | Without              | #1 WA-P-LELE-04-011<br>#2 L1LRF009-CS-H |  |
|                                    | 17Z90R-N |                       |                         |                  |                                            | Support                       |                      |                                         |  |
|                                    | 17Z90R-A | ROYAL NVIDIA MAIN B/D | NVIDIA GeForce RTX 3050 | LBY122CM (90 Wh) |                                            | Not Support                   |                      |                                         |  |
|                                    | 17Z90R-R |                       |                         |                  |                                            | Support                       |                      |                                         |  |
|                                    | 17Z90R-Q | ROYAL MAIN B/D        | Intel Iris Xe Graphics  | LBV7227E (80 Wh) | Intel, i7-1370P<br>Intel, i5-1350P         | Support                       |                      |                                         |  |
|                                    | 17Z90R-H | ROYAL MAIN B/D        | Intel Iris Xe Graphics  | LBV7227E (80 Wh) | Intel, i7-1360P<br>Intel, i5-1340P         | Not Support                   | With                 | #3 WA-P-LBLB-04-108                     |  |
|                                    | 17Z90R-T |                       |                         |                  |                                            | Support                       |                      |                                         |  |
| This Time                          | 17Z90S-G | MTL MAIN B/D          | Intel Arc Graphics      | LB3122MM (77 Wh) | Intel, Ultra 7 155H<br>Intel, Ultra 5 125H | Not Support                   | Without              | #1 WA-P-LELE-04-011<br>#2 L1LRF009-CS-H |  |
|                                    | 17Z90S-V |                       |                         |                  |                                            | Support                       |                      |                                         |  |
|                                    | 17Z90S-M |                       |                         |                  |                                            | Not Support                   |                      |                                         |  |
|                                    | 17Z90S-C |                       |                         |                  |                                            | Not Support                   |                      |                                         |  |
|                                    | 17Z90S-H |                       |                         |                  |                                            | Not Support                   | With                 | #3 WA-P-LBLB-04-108                     |  |

### 3.2. Description of EUT

|                        |                                                                                                                                                                                         |                                  |          |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|
| Test Model             | 17Z90S                                                                                                                                                                                  |                                  |          |
| Serial Number          | N/A                                                                                                                                                                                     |                                  |          |
| Power Rating           | DC 20V, 3.25A                                                                                                                                                                           |                                  |          |
| Software Version       | XY (X, Y can be 0 to 9 for different SW version not influence RF parameter)                                                                                                             |                                  |          |
| RF Features            | WLAN:802.11 a/b/g/n/ac/ax<br>Bluetooth: BT and BLE (BT 5.1)                                                                                                                             |                                  |          |
| Transmit Type          | 2.4 GHz                                                                                                                                                                                 |                                  |          |
|                        | 802.11b                                                                                                                                                                                 |                                  | 1T1R     |
|                        | 802.11g                                                                                                                                                                                 |                                  | 1T1R     |
|                        | 802.11n-HT20                                                                                                                                                                            |                                  | 2T2R     |
|                        | 802.11n-HT40                                                                                                                                                                            |                                  | 2T2R     |
|                        | 802.11ax-HE20                                                                                                                                                                           |                                  | 2T2R     |
|                        | 802.11ax-HE40                                                                                                                                                                           |                                  | 2T2R     |
|                        | BT/BLE                                                                                                                                                                                  |                                  | 1T1R     |
|                        | U-NII Bands                                                                                                                                                                             |                                  |          |
|                        | 802.11a                                                                                                                                                                                 |                                  | 1T1R     |
|                        | 802.11n-HT20/802.11ac-VHT20/802.11ax-HE20                                                                                                                                               |                                  | 2T2R     |
|                        | 802.11n-HT40/802.11ac-VHT40/802.11ax-HE40                                                                                                                                               |                                  | 2T2R     |
|                        | 802.11ac-VHT80/802.11ax-HE80                                                                                                                                                            |                                  | 2T2R     |
|                        | 802.11ac-VHT160/802.11ax-HE160                                                                                                                                                          |                                  | 2T2R     |
|                        | The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).                    |                                  |          |
| Sample Status          | Trial sample                                                                                                                                                                            |                                  |          |
| Test Sample            | Sample No.                                                                                                                                                                              | Test Item                        | Firmware |
|                        | 01                                                                                                                                                                                      | AC Conduction, RSE, Output Power | N/A      |
|                        | 02                                                                                                                                                                                      | AC Conduction, RSE, Output Power | N/A      |
| Date of Receipt        | 2023. 09. 05                                                                                                                                                                            |                                  |          |
| Date of Test           | 2023. 09. 26 ~ 10. 06                                                                                                                                                                   |                                  |          |
| Interface Ports of EUT | <ul style="list-style-type: none"><li>• One HDMI Port</li><li>• Two USB Type C Ports</li><li>• One Earphone Port</li><li>• One Micro SD Card Slot</li><li>• Two USB 3.0 Ports</li></ul> |                                  |          |
| Accessories Supplied   | <ul style="list-style-type: none"><li>• AC Adapter</li><li>• Type C cable *2</li><li>• LAN Gender</li></ul>                                                                             |                                  |          |

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

### 3.3. Reference Test Guidance

KDB 662911 D01 Multiple Transmitter Output v02r01  
ANSI C63.10:2013

### 3.4. Information for Permissive Change

- The EUT is an addition version with original FCC ID: BEJNT-17Z90R and IC: 2703H-17Z90R are as following.
  - (a) To add new models 17Z90S and 17ZD90S for FCC ID application.
  - (b) To add new model 17Z90S for ISED application.
  - (c) To add new Configuration (HVIN) 17Z90S-G, 17Z90S-V, 17Z90S-M, 17Z90S-C and 17Z90S-H.
  - (d) Based on original ROYAL MAIN B/D main board, the difference between ROYAL MAIN B/D main board and MTL MAIN B/D main board is refer to Cover Letter-Permissive Change. The MTL MAIN B/D main board is for new Configuration (HVIN) 17Z90S-G, 17Z90S-V, 17Z90S-M, 17Z90S-C and 17Z90S-H.
  - (e) To add new CPUs for MTL MAIN B/D main board.
  - (f) To add new Battery Pack for MTL MAIN B/D main board.
  - (g) To add new Type C cable (3A).
- The differences between this application and original's ID as clarify in following list.

| Difference<br>Configuration<br>(HVIN) |          | Main Board     | GPU                    | Battery             | CPU                                        | TPM<br>(Trusted<br>Platform<br>Module) | Panel Touch<br>Function | Antenna                                 |
|---------------------------------------|----------|----------------|------------------------|---------------------|--------------------------------------------|----------------------------------------|-------------------------|-----------------------------------------|
| Original                              | 17Z90R-K | ROYAL MAIN B/D | Intel Iris Xe Graphics | LBV7227E<br>(80 Wh) | Intel, i7-1360P<br>Intel, i5-1340P         | Not<br>Support                         | Without                 | #1 WA-P-LELE-04-011<br>#2 L1LRF009-CS-H |
|                                       | 17Z90R-N |                |                        |                     |                                            | Support                                |                         |                                         |
|                                       | 17Z90R-Q |                |                        |                     | Intel, i7-1370P<br>Intel, i5-1350P         | Support                                | With                    | #3 WA-P-LBLB-04-108                     |
|                                       | 17Z90R-H |                |                        |                     |                                            | Not<br>Support                         |                         |                                         |
|                                       | 17Z90R-T |                |                        |                     |                                            | Support                                |                         |                                         |
| Permissive<br>Change                  | 17Z90S-G | MTL MAIN B/D   | Intel Arc Graphics     | LB3122MM<br>(77 Wh) | Intel, Ultra 7 155H<br>Intel, Ultra 5 125H | Not<br>Support                         | Without                 | #1 WA-P-LELE-04-011<br>#2 L1LRF009-CS-H |
|                                       | 17Z90S-V |                |                        |                     |                                            | Support                                |                         |                                         |
|                                       | 17Z90S-M |                |                        |                     |                                            | Not<br>Support                         |                         |                                         |
|                                       | 17Z90S-C |                |                        |                     |                                            | Not<br>Support                         | With                    | #3 WA-P-LBLB-04-108                     |
|                                       | 17Z90S-H |                |                        |                     |                                            | Not<br>Support                         |                         |                                         |

- Due to above different item, there have some test item should be re-tested (see section 2), the test data are recorded in this report.

### 3.5. Antenna Information

| No.                                                                                                                                                                                                                                                                                                             | Antenna Part Number | Manufacturer | Antenna Type | Frequency (MHz) | Max Gain(dBi) |       | Directional Gain |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|--------------|-----------------|---------------|-------|------------------|
|                                                                                                                                                                                                                                                                                                                 |                     |              |              |                 | Aux           | Main  |                  |
| 1.                                                                                                                                                                                                                                                                                                              | WA-P-LELE-04-011    | INPAQ        | Mono-Pole    | 2400            | 1.10          | 2.20  | 1.68             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 2450            | 1.60          | 3.00  | 2.36             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 2500            | 1.50          | 2.70  | 2.14             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5150            | 3.80          | 4.10  | 3.95             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5400            | 3.70          | 4.00  | 3.85             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5850            | 3.30          | 3.70  | 3.50             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5925            | 3.20          | 3.50  | 3.35             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 6525            | 2.50          | 2.70  | 2.60             |
| 7125                                                                                                                                                                                                                                                                                                            | 2.10                | 2.50         | 2.30         |                 |               |       |                  |
| According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then<br>Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi<br>We chose the antenna gain corresponding to the frequency listed on the table which is closer to center frequency of WLAN. |                     |              |              |                 |               |       |                  |
| No.                                                                                                                                                                                                                                                                                                             | Antenna Part Number | Manufacturer | Antenna Type | Frequency (MHz) | Max Gain(dBi) |       | Directional Gain |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              |                 | Aux           | Main  |                  |
| 2.                                                                                                                                                                                                                                                                                                              | L1LRF009-CS-H       | LUXSHARE-ICT | Mono-Pole    | 2400            | 2.89          | -1.45 | 1.24             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 2450            | -0.07         | 0.26  | 0.10             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 2500            | -6.91         | 2.15  | -0.35            |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5150            | 3.64          | 5.24  | 4.51             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5400            | 1.11          | 0.55  | 0.84             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5850            | 2.88          | 4.96  | 4.04             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5925            | 2.48          | 5.85  | 4.49             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 6525            | 1.38          | 1.19  | 1.29             |
| 7125                                                                                                                                                                                                                                                                                                            | 1.89                | 3.99         | 3.07         |                 |               |       |                  |
| According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then<br>Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi<br>We chose the antenna gain corresponding to the frequency listed on the table which is closer to center frequency of WLAN. |                     |              |              |                 |               |       |                  |
| No.                                                                                                                                                                                                                                                                                                             | Antenna Part Number | Manufacturer | Antenna Type | Frequency (MHz) | Max Gain(dBi) |       | Directional Gain |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              |                 | Aux           | Main  |                  |
| 3.                                                                                                                                                                                                                                                                                                              | WA-P-LBLB-04-108    | INPAQ        | Mono-Pole    | 2400-2500       | 2.90          | 3.10  | 3.00             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5150-5350       | 2.80          | -2.10 | 1.01             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5470-5725       | 5.70          | 2.50  | 4.39             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5725-5850       | 5.30          | 5.20  | 5.25             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 5925-6425       | 3.70          | 4.80  | 4.28             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 6425-6525       | -1.00         | 1.00  | 0.11             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 6525-6875       | 2.80          | 1.60  | 2.24             |
|                                                                                                                                                                                                                                                                                                                 |                     |              |              | 6875-7125       | -1.40         | 2.90  | 1.26             |
| According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then<br>Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi                                                                                                                              |                     |              |              |                 |               |       |                  |

### 3.6. EUT Specifications Assessed in Current Report

| Mode          | Fundamental Range (MHz) | Channel Number | Modulation                                       | Data Rate (Mbps) |
|---------------|-------------------------|----------------|--------------------------------------------------|------------------|
| 802.11b       | 2412-2472               | 13             | DSSS (DBPSK/DQPSK/CCK)                           | Up to 11         |
| 802.11g       |                         | 13             | OFDM (BPSK/QPSK/16QAM/64QAM)                     | Up to 54         |
| 802.11n-HT20  |                         |                |                                                  | Up to 144.4      |
| 802.11n-HT40  | 2422-2462               | 9              | OFDM (BPSK/QPSK/16QAM/64QAM)                     | Up to 300        |
| 802.11ax-HE20 | 2412-2472               | 13             | OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/1024QAM) | Up to 287        |
| 802.11ax-HE40 | 2422-2462               | 9              |                                                  | Up to 574        |
| BLE           | 2402-2480               | 40             | GFSK (1Mbps, 2Mbps, PHY Coded S8, PHY Coded S2)  | Up to 2          |

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| Channel List              |                 |                      |                 |
|---------------------------|-----------------|----------------------|-----------------|
| 802.11 b/g/n-HT20/ax-HE20 |                 | 802.11n-HT40/ax-HE40 |                 |
| Channel Number            | Frequency (MHz) | Channel Number       | Frequency (MHz) |
| 1                         | 2412            | 3                    | 2422            |
| 2                         | 2417            | 4                    | 2427            |
| 3                         | 2422            | 5                    | 2432            |
| 4                         | 2427            | 6                    | 2437            |
| 5                         | 2432            | 7                    | 2442            |
| 6                         | 2437            | 8                    | 2447            |
| 7                         | 2442            | 9                    | 2452            |
| 8                         | 2447            | 10                   | 2457            |
| 9                         | 2452            | 11                   | 2462            |
| 10                        | 2457            |                      |                 |
| 11                        | 2462            |                      |                 |
| 12                        | 2467            |                      |                 |
| 13                        | 2472            |                      |                 |

| Channel List   |                 |                |                 |                |                 |                |                 |
|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| BLE            |                 |                |                 |                |                 |                |                 |
| Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) |
| 37             | 2402            | 09             | 2422            | 18             | 2442            | 28             | 2462            |
| 00             | 2404            | 10             | 2424            | 19             | 2444            | 29             | 2464            |
| 01             | 2406            | 38             | 2426            | 20             | 2446            | 30             | 2466            |
| 02             | 2408            | 11             | 2428            | 21             | 2448            | 31             | 2468            |
| 03             | 2410            | 12             | 2430            | 22             | 2450            | 32             | 2470            |
| 04             | 2412            | 13             | 2432            | 23             | 2452            | 33             | 2472            |
| 05             | 2414            | 14             | 2434            | 24             | 2454            | 34             | 2474            |
| 06             | 2416            | 15             | 2436            | 25             | 2456            | 35             | 2476            |
| 07             | 2418            | 16             | 2438            | 26             | 2458            | 36             | 2478            |
| 08             | 2420            | 17             | 2440            | 27             | 2460            | 39             | 2480            |

### 3.7. Descriptions of Key Components

#### 3.7.1. For the All Component Lists

| Item                     | Supplier   | Model / Type              | Character                                                                                                                                                                                  |
|--------------------------|------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                   | Microsoft  | Win 10                    | ---                                                                                                                                                                                        |
|                          |            | Win 10 Pro                | ---                                                                                                                                                                                        |
|                          |            | Win11 Home                | ---                                                                                                                                                                                        |
| Main Board               | LG         | ROYAL NVIDIA MAIN B/D PCB | Main Board (PM)<br>Manufacturer:<br>#1 Hannstar Board Tech (Jiang Yin) Corp.,Ltd.<br>#2 Elec&Eltek Company (MCO) Limited.<br>CPU (Socket: BGA1744)                                         |
|                          |            | ROYAL MAIN B/D PCB        | Main Board (GM)<br>Manufacturer:<br>#1 Hannstar Board Tech (Jiang Yin) Corp.,Ltd.<br>#2 Elec&Eltek Company (MCO) Limited.<br>CPU (Socket: BGA1744)                                         |
|                          |            | MTL MAIN B/D              | <b>Main Board (MTL)</b><br><b>Manufacturer:</b><br><b>#1 Hannstar Board Tech (Jiang Yin) Corp.,Ltd.</b><br><b>#2 Elec&amp;Eltek Company (MCO) Limited.</b><br><b>CPU (Socket: BGA2049)</b> |
| WLAN SUB Board           | LG         | 17Z90R SUB B/D            | Manufacturer:<br>#1 Hannstar Board Tech (Jiang Yin)Corp.,Ltd.<br>#2 JiangSuHuaShen Electronic co.,Ltd (HXF)<br>#3 Elec&Eltek Company (MCO) Limited.                                        |
| CPU<br>(Socket: BGA1744) | Intel      | i7-1360P                  | 2.2GHz                                                                                                                                                                                     |
|                          | Intel      | i5-1340P                  | 1.9GHz                                                                                                                                                                                     |
|                          | Intel      | i7-1370P                  | 1.9GHz                                                                                                                                                                                     |
|                          | Intel      | i5-1350P                  | 1.9GHz                                                                                                                                                                                     |
| CPU<br>(Socket: BGA2049) | Intel      | Ultra 7 155H*             | 3.8GHz                                                                                                                                                                                     |
|                          | Intel      | Ultra 5 125H*             | 3.6GHz                                                                                                                                                                                     |
| 17" LCD Panel            | LG Display | LP170WQ1-SPF2             | Resolution: 2560 x 1600, 60Hz WQXGA IPS<br>#1 Without Touch<br>#2 With Touch                                                                                                               |
|                          |            | LP170WQ2-SPB1             | Resolution: 2560 x 1600, 144Hz WQXGA IPS                                                                                                                                                   |
| Storage (SSD)            | SK hynix   | ---                       | 2TB/1TB/512GB/256GB                                                                                                                                                                        |
|                          | Samsung    | ---                       | 2TB/1TB/512GB/256GB                                                                                                                                                                        |
| Memory (RAM)             | Samsung    | ---                       | 32GB/16GB/8GB LPDDR5x(On Board)                                                                                                                                                            |
|                          | SK Hynix   | ---                       | 32GB/16GB/8GB LPDDR5x(On Board)                                                                                                                                                            |
| Battery Pack             | LG         | LBY122CM                  | 90Wh with PM M/B, DC 7.76V, 90Wh                                                                                                                                                           |
|                          | LG         | LBV7227E                  | 80Wh with GM M/B DC 7.74V, 80Wh                                                                                                                                                            |
|                          | LG         | LB3122MM*                 | 77Wh with MTL M/B DC 15.52V, 77Wh                                                                                                                                                          |

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| Item                                             | Supplier                                   | Model / Type         | Character                                                                                                                                  |
|--------------------------------------------------|--------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| WLAN Combo Card                                  | Intel                                      | AX211D2W             | WLAN and BT, 2x2 PCIe M.2 1216<br>SD adapter card<br>FCC ID: PD9AX211D2<br>IC: 1000M-AX211D2                                               |
| WLAN Combo Antenna                               | LG (INPAQ)                                 | WA-P-LELE-04-011     | PCB, Mono-pole Type<br>Main: Black, Aux: Gray                                                                                              |
|                                                  | LG (INPAQ)                                 | WA-P-LBLB-04-108     | PCB, Mono-pole Type<br>Main: Black, Aux: Gray                                                                                              |
|                                                  | LG (LUXSHARE-ICT)                          | L1LRF009-CS-H        | PCB, Mono-pole Type<br>Main: Black, Aux: Gray                                                                                              |
| Touch Pad                                        | LITE-ON                                    | SP8001(SG-A0630-00A) | ---                                                                                                                                        |
|                                                  | ELAN                                       | SD081A-36H0          | ---                                                                                                                                        |
| Keyboard                                         | TIC                                        | KT0120B9             | ---                                                                                                                                        |
|                                                  | LITE ON                                    | SN8B02               | ---                                                                                                                                        |
| Web Camera                                       | Chicony                                    | CKFLF26              | ---                                                                                                                                        |
|                                                  | Luxvisions                                 | 1BF225N3             | ---                                                                                                                                        |
| LAN Gender<br>(Type C to LAN)                    | SUZHOU MEC ELECTRONICS                     | 80-5946-111          | (White) 10/100Megabit Ethernet                                                                                                             |
|                                                  |                                            | 80-5946-101          | (Black) 10/100 Megabit Ethernet                                                                                                            |
|                                                  | ARIN TECH CO. LTD                          | GD-08MF-36-WH-LP10   | (White) 10/100Megabit Ethernet                                                                                                             |
|                                                  |                                            | GD-08MF-36-BK-LP11   | (Black) 10/100 Megabit Ethernet                                                                                                            |
|                                                  | HUIZHOU DEHONG TECHNOLOGY CO.,LTD.         | 370-50713            | (White) 10/100Megabit Ethernet                                                                                                             |
|                                                  |                                            | 370-50714            | (Black) 10/100 Megabit Ethernet                                                                                                            |
|                                                  | Type C to LAN: Shielded, Undetached, 0.12m |                      |                                                                                                                                            |
| AC Adapter                                       | LG<br>(PI ELECTRONICS)                     | LP65WFC20P-NJ W      | (White)<br>I/P: AC 100-240V, 1.6A, 50-60Hz<br>O/P:DC5V,3A(15W) or DC9V, 3A(27W)or<br>15V,3A (15W) or 20V,3.25A (65W)<br>Wall-Mounted: (2C) |
|                                                  | LG<br>(PI ELECTRONICS)                     | LP65WFC20P-NJ B      | (Black)<br>I/P: AC 100-240V, 1.6A, 50-60Hz<br>O/P:DC5V,3A(15W) or DC9V, 3A(27W)or<br>15V,3A (15W) or 20V,3.25A (65W)<br>Wall-Mounted: (2C) |
| Type C Cable                                     | #1 Shielded, Detached, 2.0m (5A)           |                      |                                                                                                                                            |
|                                                  | #2 Shielded, Detached, 1.8m (3A)*          |                      |                                                                                                                                            |
| Note: “*” Standing for adding new configuration. |                                            |                      |                                                                                                                                            |

Remark: For more detailed features description, please refer to the manufacturer’s specifications or the user manual.

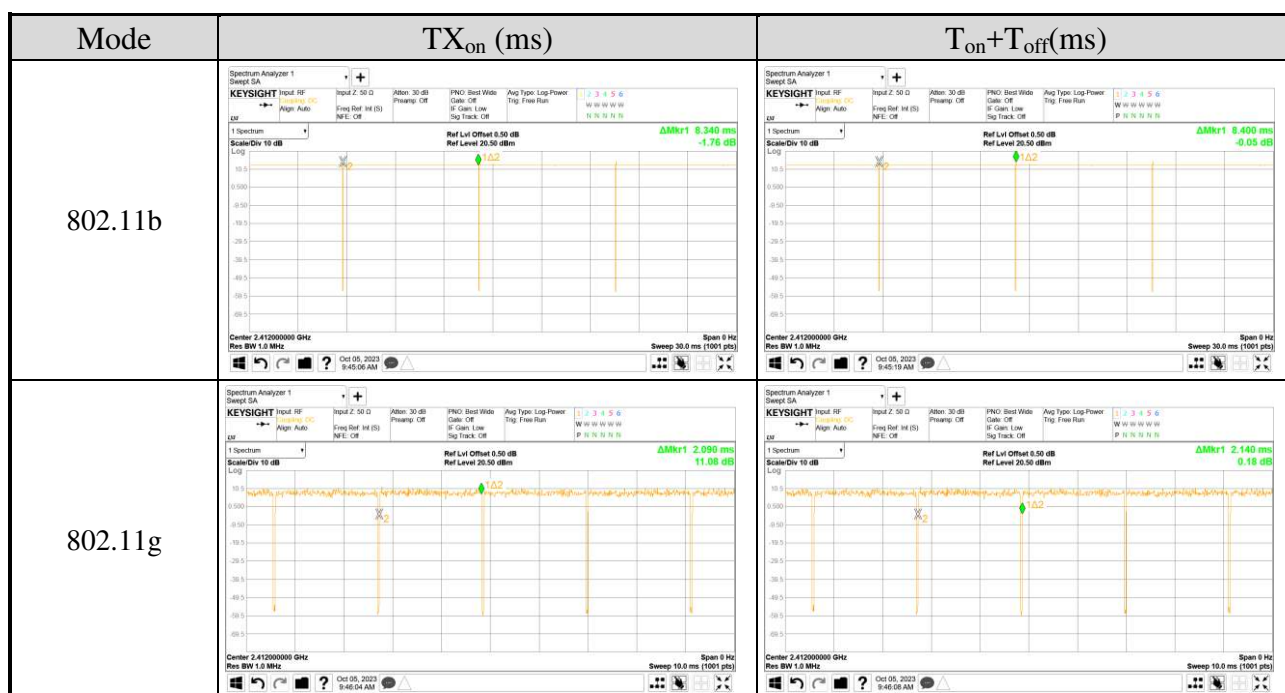
3.7.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

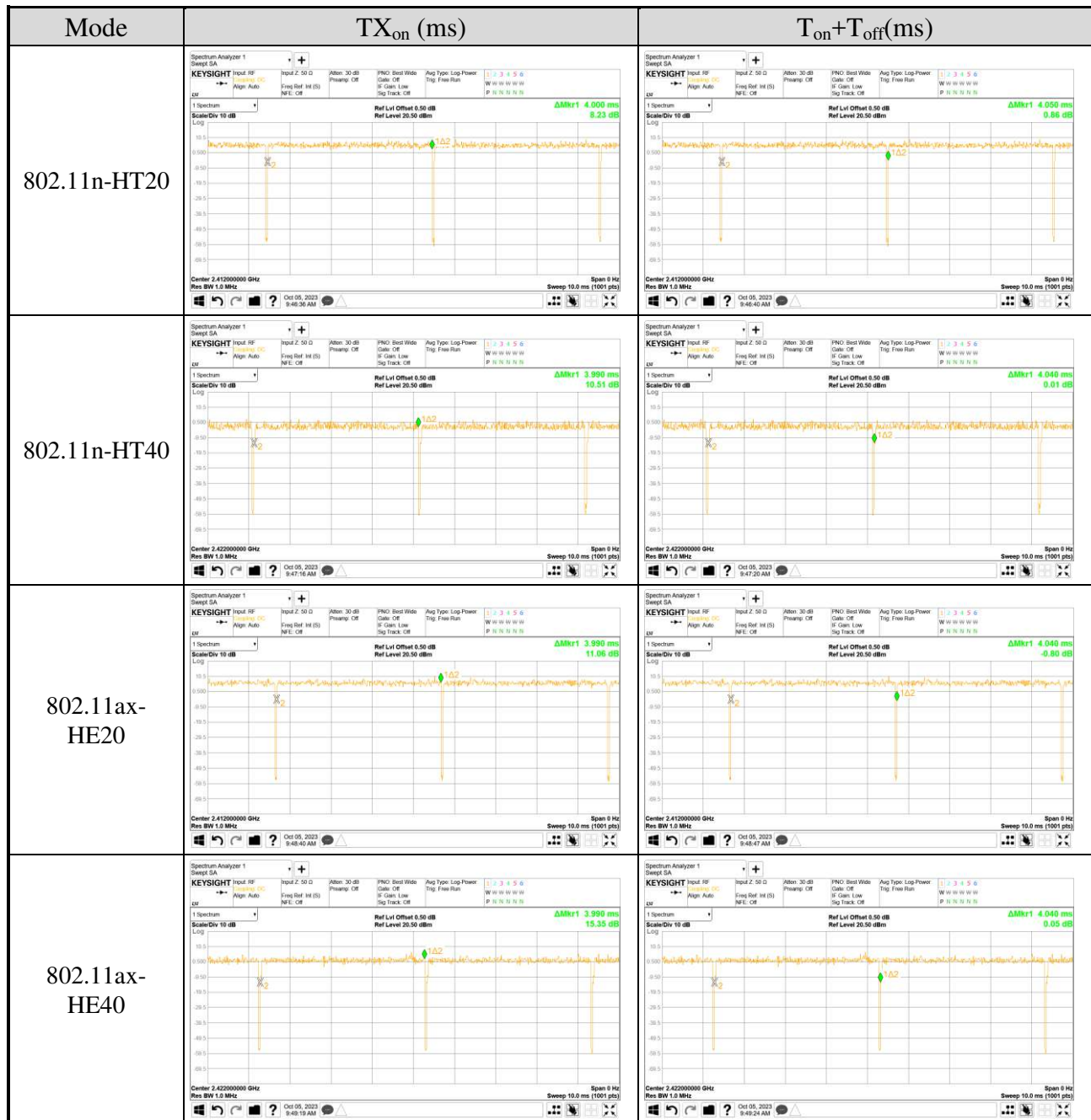
| SKU (Mode)         |                                         |                                      | 1 | 2 | 3 |
|--------------------|-----------------------------------------|--------------------------------------|---|---|---|
| Main Board         | LG, MTL MAIN B/D                        |                                      | V | V | V |
| WLAN SUB Board     | LG, 17Z90R SUB B/D                      |                                      | V | V | V |
| CPU                | Intel, Ultra 7 155H                     |                                      | V |   | V |
|                    | Intel, Ultra 5 125H                     |                                      |   | V |   |
| 17" LCD Panel      | LG Display, LP170WQ1-SPF2 without Touch |                                      | V | V |   |
|                    | LG Display, LP170WQ1-SPF2 with Touch    |                                      |   |   | V |
| Storage (SSD)      | Samsung, 2TB                            |                                      | V | V | V |
|                    | Samsung, 256GB                          |                                      | V | V | V |
| Memory (RAM)       | Samsung, 32GB                           |                                      | V | V | V |
| Battery Pack       | LG, 77Wh                                |                                      | V | V | V |
| Touch Pad          | LITE-ON                                 |                                      | V | V | V |
| Keyboard           | TIC                                     |                                      | V | V | V |
| Web Camera         | Chicony                                 |                                      | V | V | V |
| WLAN Combo Card    | Intel, AX211D2W                         |                                      | V | V | V |
| WLAN Combo Antenna | LG (INPAQ), WA-P-LELE-04-011            |                                      | V |   |   |
|                    | LG (LUXSHARE-ICT), L1LRF009-CS-H        |                                      |   | V |   |
|                    | LG (INPAQ), WA-P-LBLB-04-108            |                                      |   |   | V |
| Type C #1          | AC Adapter                              | LG (PI ELECTRONICS), LP65WFC20P-NJ W | V | V | V |
| Type C #2          | Link to LAN Gender                      | MEC (White)                          | V | V | V |

### 3.8. Test Configuration

| Mode                          | TX <sub>on</sub> (ms) | TX <sub>on+off</sub> (ms) | Duty Cycle (x) | Duty Cycle Factor<br>[10log(1/x)] (dB) |
|-------------------------------|-----------------------|---------------------------|----------------|----------------------------------------|
| 802.11b                       | 8.340                 | 8.400                     | 0.993          | N/A                                    |
| 802.11g                       | 2.090                 | 2.140                     | 0.977          | 0.101                                  |
| 802.11n-HT20                  | 4.000                 | 4.050                     | 0.988          | N/A                                    |
| 802.11n-HT40                  | 3.990                 | 4.040                     | 0.988          | N/A                                    |
| 802.11ax-HE20                 | 3.990                 | 4.040                     | 0.988          | N/A                                    |
| 802.11ax-HE40                 | 3.990                 | 4.040                     | 0.988          | N/A                                    |
| 802.11ax-HE20 (RU Config 26)  | 0.52                  | 0.575                     | 0.904          | 0.438                                  |
| 802.11ax-HE20 (RU Config 52)  | 0.735                 | 0.785                     | 0.936          | 0.287                                  |
| 802.11ax-HE20 (RU Config 106) | 1.505                 | 1.56                      | 0.965          | 0.155                                  |
| 802.11ax-HE40 (RU Config 242) | 3.38                  | 3.43                      | 0.985          | N/A                                    |

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.





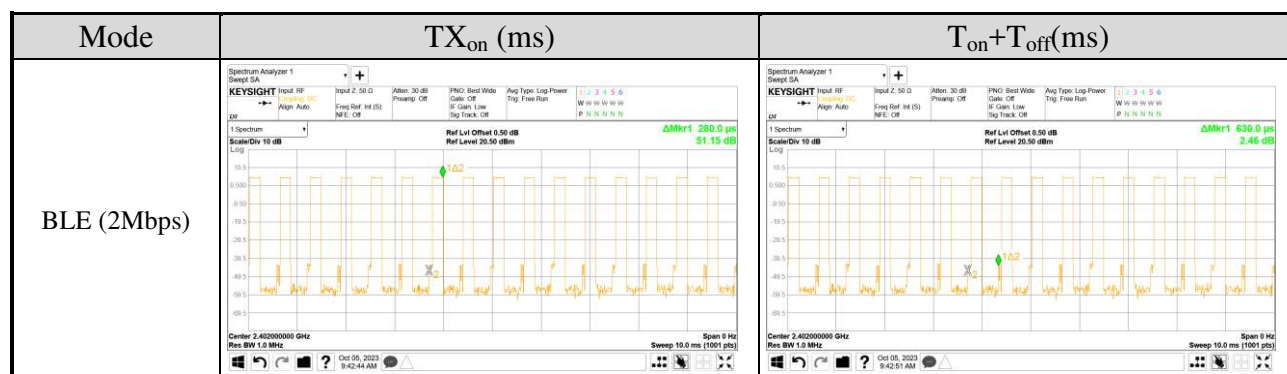
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| Mode        | TX <sub>on</sub> (ms) | TX <sub>on+off</sub> (ms) | Duty Cycle (x) | Duty Cycle Factor<br>[10log(1/x)] (dB) |
|-------------|-----------------------|---------------------------|----------------|----------------------------------------|
| BLE (2Mbps) | 0.280                 | 0.630                     | 0.444          | 3.526                                  |

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.



| AC Conduction |                  |
|---------------|------------------|
| SKU #1        | Normal operation |
| SKU #2        | Normal operation |
| SKU #3        | Normal operation |

| Item               |        | Mode          | Data Rate | Test Channel |
|--------------------|--------|---------------|-----------|--------------|
| Radiated Test Case | SKU #1 | 802.11ax-HE20 | HE0       | 7            |
|                    | SKU #2 | BLE           | 2Mbps     | 17           |
|                    |        | 802.11ax-HE20 | HE0       | 7            |
|                    |        | BLE           | 2Mbps     | 17           |
|                    |        | 802.11ax-HE20 | HE0       | 7            |
|                    | SKU #3 | BLE           | 2Mbps     | 17           |

| Item               |        | Mode          | Data Rate | Test Channel |
|--------------------|--------|---------------|-----------|--------------|
| Radiated Test Case | SKU #1 | BLE           | 2Mbps     | 39           |
|                    | SKU #2 | BLE           | 2Mbps     | 39           |
|                    | SKU #3 | 802.11n-HT40  | MCS8      | 9            |
|                    |        | BLE           | 2Mbps     | 39           |
|                    | SKU #1 | 802.11g       | 6Mbps     | 7            |
|                    | SKU #2 | BLE           | 2Mbps     | 17           |
|                    |        | 802.11ax-HE20 | HE0       | 7            |
|                    |        | BLE           | 2Mbps     | 39           |
|                    |        | 802.11ax-HE40 | HE0       | 7            |
|                    | SKU #3 | BLE           | 2Mbps     | 37           |

| Item               |        | Mode          | RU Config | Test Channel |
|--------------------|--------|---------------|-----------|--------------|
| Radiated Test Case | SKU #1 | 802.11ax-HE40 | 242/62    | 11           |
|                    | SKU #2 | 802.11ax-HE40 | 242/62    | 11           |

| Item                   |                  |                                               | Mode          | Data Rate    | Test Channel        |
|------------------------|------------------|-----------------------------------------------|---------------|--------------|---------------------|
| Conducted<br>Test Case | SKU #1<br>SKU #2 | Peak Output<br>Power<br>( <b>SPOT Check</b> ) | 802.11b       | 1Mbps        | 1/7/8/11/12/13      |
|                        |                  |                                               | 802.11g       | 6Mbps        | 1/2/7/10/11/12/13   |
|                        |                  |                                               | 802.11n-HT20  | MCS8         | 1/2/3/7/10/11/12/13 |
|                        |                  |                                               | 802.11n-HT40  | MCS8         | 3/7/9/10/11         |
|                        |                  |                                               | 802.11ax-HE20 | HE0          | 1/2/7/10/11/12/13   |
|                        |                  |                                               | 802.11ax-HE40 | HE0          | 3/7/9/10/11         |
|                        |                  |                                               | BLE           | 1Mbps        | 37/17/39            |
|                        |                  |                                               |               | 2Mbps        | 37/17/39            |
|                        |                  |                                               |               | PHY Coded S2 | 37/17/39            |
|                        |                  |                                               |               | PHY Coded S8 | 37/17/39            |
|                        | SKU #3           |                                               | 802.11b       | 1Mbps        | 1/7/8/11/12/13      |
|                        |                  |                                               | 802.11g       | 6Mbps        | 1/2/7/10/11/12/13   |
|                        |                  |                                               | 802.11n-HT20  | MCS8         | 1/2/3/7/10/11/12/13 |
|                        |                  |                                               | 802.11n-HT40  | MCS8         | 3/7/9/10/11         |
|                        |                  |                                               | 802.11ax-HE20 | HE0          | 1/2/7/10/11/12/13   |
|                        |                  |                                               | 802.11ax-HE40 | HE0          | 3/7/9/10/11         |
|                        |                  |                                               | BLE           | 1Mbps        | 37/17/39            |
|                        |                  |                                               |               | 2Mbps        | 37/17/39            |
|                        |                  |                                               |               | PHY Coded S2 | 37/17/39            |
|                        |                  |                                               |               | PHY Coded S8 | 37/17/39            |

| Item                |                  |                                   | Mode          | Data Rate | RU Configuration | Test Channel |
|---------------------|------------------|-----------------------------------|---------------|-----------|------------------|--------------|
| Conducted Test Case | SKU #1<br>SKU #2 | Peak Output Power<br>(SPOT Check) | 802.11ax-HE20 | HE0       | 26/0             | 1            |
|                     |                  |                                   |               |           | 52/37            |              |
|                     |                  |                                   |               |           | 106/53           |              |
|                     |                  |                                   |               | HE0       | 26/8             | 13           |
|                     |                  |                                   |               |           | 52/40            |              |
|                     |                  |                                   |               |           | 106/5            |              |
|                     | SKU #3           |                                   | 802.11ax-HE40 | HE0       | 242/61           | 3            |
|                     |                  |                                   |               | HE0       | 242/62           | 11           |
|                     |                  |                                   | 802.11ax-HE20 | HE0       | 26/0             | 1            |
|                     |                  |                                   |               |           | 52/37            |              |
|                     |                  |                                   |               |           | 106/53           |              |
|                     |                  |                                   |               | HE0       | 26/8             | 13           |
|                     |                  |                                   |               |           | 52/40            |              |
|                     |                  |                                   |               |           | 106/5            |              |
| 802.11ax-HE40       | HE0              | 242/61                            | 3             |           |                  |              |
|                     | HE0              | 242/62                            | 11            |           |                  |              |

Note 1: ☐ Mobile Device ☒ Portable Device

and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

☒ Lie ☐ Side ☐ Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

Note 3: The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in the test report.

Note 4: The data rates were selected based on preliminary testing that identified rate as the worst case for output power.

### 3.9. Output Power Setting

For SKU (Mode) 1, 2

| Mode    | Centre Frequency (MHz) | Power Setting |        | Mode    | Centre Frequency (MHz) | Power Setting |        |
|---------|------------------------|---------------|--------|---------|------------------------|---------------|--------|
|         |                        | AUX           | Main   |         |                        | AUX           | Main   |
| 802.11b | 2412                   | 20.000        | 20.000 | 802.11g | 2412                   | 17.000        | 17.000 |
|         | 2442                   | 20.000        | 20.000 |         | 2417                   | 19.000        | 19.250 |
|         | 2462                   | 20.000        | 20.000 |         | 2442                   | 20.000        | 20.000 |
|         | 2467                   | 19.000        | 18.750 |         | 2457                   | 18.750        | 18.500 |
|         | 2472                   | 16.500        | 15.500 |         | 2462                   | 16.750        | 16.750 |
|         |                        |               |        |         | 2467                   | 14.500        | 14.250 |
|         |                        |               |        |         | 2472                   | 11.500        | 11.500 |

| Mode         | Centre Frequency (MHz) | Power Setting |        | Mode         | Centre Frequency (MHz) | Power Setting |        |
|--------------|------------------------|---------------|--------|--------------|------------------------|---------------|--------|
|              |                        | AUX           | Main   |              |                        | AUX           | Main   |
| 802.11n-HT20 | 2412                   | 14.750        | 14.750 | 802.11n-HT40 | 2422                   | 13.750        | 13.750 |
|              | 2417                   | 17.000        | 17.000 |              | 2442                   | 14.750        | 14.750 |
|              | 2442                   | 18.250        | 18.250 |              | 2452                   | 13.750        | 13.750 |
|              | 2457                   | 20.000        | 20.000 |              | 2457                   | 9.000         | 9.000  |
|              | 2462                   | 18.250        | 18.250 |              | 2462                   | 5.500         | 5.500  |
|              | 2467                   | 15.000        | 15.000 |              |                        |               |        |
|              | 2472                   | 11.000        | 11.000 |              |                        |               |        |

| Mode          | Centre Frequency (MHz) | Power Setting |        | Mode          | Centre Frequency (MHz) | Power Setting |        |
|---------------|------------------------|---------------|--------|---------------|------------------------|---------------|--------|
|               |                        | AUX           | Main   |               |                        | AUX           | Main   |
| 802.11ax-HE20 | 2412                   | 14.750        | 14.750 | 802.11ax-HE40 | 2422                   | 13.750        | 13.750 |
|               | 2417                   | 17.000        | 17.000 |               | 2442                   | 14.750        | 14.750 |
|               | 2422                   | 18.250        | 18.250 |               | 2452                   | 13.750        | 13.750 |
|               | 2442                   | 20.000        | 20.000 |               | 2457                   | 9.000         | 9.000  |
|               | 2457                   | 18.250        | 18.250 |               | 2462                   | 5.500         | 5.500  |
|               | 2462                   | 15.000        | 15.000 |               |                        |               |        |
|               | 2467                   | 11.000        | 11.000 |               |                        |               |        |
|               | 2472                   | 6.000         | 6.000  |               |                        |               |        |

| Mode              | RU Configuration | Centre Frequency (MHz) | Power Setting |        |
|-------------------|------------------|------------------------|---------------|--------|
|                   |                  |                        | AUX           | Main   |
| 802.11ax-<br>HE20 | 26/0             | 2412                   | 18.250        | 18.250 |
|                   | 52/37            |                        | 18.500        | 18.500 |
|                   | 106/53           |                        | 18.250        | 18.250 |
|                   | 26/0             | 2472                   | 5.500         | 5.500  |
|                   | 52/37            |                        | 6.000         | 6.000  |
|                   | 106/53           |                        | 6.000         | 6.000  |
| 802.11ax-<br>HE40 | 242/61           | 2422                   | 15.000        | 15.000 |
|                   | 242/62           | 2462                   | 6.000         | 6.000  |

| Mode | Centre Frequency (MHz) | Power Setting |         |              |              |
|------|------------------------|---------------|---------|--------------|--------------|
|      |                        | 1Mbps         | 2Mbps   | PHY Coded S2 | PHY Coded S8 |
| BLE  | 2402                   | Default       | Default | Default      | Default      |
|      | 2440                   | Default       | Default | Default      | Default      |
|      | 2480                   | Default       | Default | Default      | Default      |

### For SKU (Mode) 3

| 802.11b (Mode) |                        |               |        | 802.11g (Mode) |                        |               |        |
|----------------|------------------------|---------------|--------|----------------|------------------------|---------------|--------|
| Mode           | Centre Frequency (MHz) | Power Setting |        | Mode           | Centre Frequency (MHz) | Power Setting |        |
|                |                        | AUX           | Main   |                |                        | AUX           | Main   |
| 802.11b        | 2412                   | 18.000        | 18.000 | 802.11g        | 2412                   | 17.000        | 17.000 |
|                | 2442                   | 18.000        | 18.000 |                | 2417                   | 18.000        | 18.000 |
|                | 2462                   | 18.000        | 18.000 |                | 2442                   | 18.000        | 18.000 |
|                | 2467                   | 18.000        | 18.000 |                | 2457                   | 18.000        | 18.000 |
|                | 2472                   | 16.500        | 15.500 |                | 2462                   | 16.750        | 16.750 |
|                |                        |               |        |                | 2467                   | 14.500        | 14.250 |
|                |                        |               |        |                | 2472                   | 11.500        | 11.500 |

| Mode         | Centre Frequency (MHz) | Power Setting |        | Mode         | Centre Frequency (MHz) | Power Setting |        |
|--------------|------------------------|---------------|--------|--------------|------------------------|---------------|--------|
|              |                        | AUX           | Main   |              |                        | AUX           | Main   |
| 802.11n-HT20 | 2412                   | 14.750        | 14.750 | 802.11n-HT40 | 2422                   | 13.750        | 13.750 |
|              | 2417                   | 17.000        | 17.000 |              | 2442                   | 14.750        | 14.750 |
|              | 2442                   | 18.000        | 18.000 |              | 2452                   | 13.750        | 13.750 |
|              | 2457                   | 18.000        | 18.000 |              | 2457                   | 9.000         | 9.000  |
|              | 2462                   | 18.000        | 18.000 |              | 2462                   | 5.500         | 5.500  |
|              | 2467                   | 15.000        | 15.000 |              |                        |               |        |
|              | 2472                   | 11.000        | 11.000 |              |                        |               |        |

| Mode          | Centre Frequency (MHz) | Power Setting |        | Mode          | Centre Frequency (MHz) | Power Setting |        |
|---------------|------------------------|---------------|--------|---------------|------------------------|---------------|--------|
|               |                        | AUX           | Main   |               |                        | AUX           | Main   |
| 802.11ax-HE20 | 2412                   | 14.750        | 14.750 | 802.11ax-HE40 | 2422                   | 13.750        | 13.750 |
|               | 2417                   | 17.000        | 17.000 |               | 2442                   | 14.750        | 14.750 |
|               | 2422                   | 18.000        | 18.000 |               | 2452                   | 13.750        | 13.750 |
|               | 2442                   | 18.000        | 18.000 |               | 2457                   | 9.000         | 9.000  |
|               | 2457                   | 18.000        | 18.000 |               | 2462                   | 5.500         | 5.500  |
|               | 2462                   | 15.000        | 15.000 |               |                        |               |        |
|               | 2467                   | 11.000        | 11.000 |               |                        |               |        |
|               | 2472                   | 6.000         | 6.000  |               |                        |               |        |

| Mode              | RU Configuration | Centre Frequency (MHz) | Power Setting |        |
|-------------------|------------------|------------------------|---------------|--------|
|                   |                  |                        | AUX           | Main   |
| 802.11ax-<br>HE20 | 26/0             | 2412                   | 18.000        | 18.000 |
|                   | 52/37            |                        | 18.000        | 18.000 |
|                   | 106/53           |                        | 18.000        | 18.000 |
|                   | 26/0             | 2472                   | 5.500         | 5.500  |
|                   | 52/37            |                        | 6.000         | 6.000  |
|                   | 106/53           |                        | 6.000         | 6.000  |
| 802.11ax-<br>HE40 | 242/61           | 2422                   | 15.000        | 15.000 |
|                   | 242/62           | 2462                   | 6.000         | 6.000  |

| Mode | Centre Frequency (MHz) | Power Setting |         |              |              |
|------|------------------------|---------------|---------|--------------|--------------|
|      |                        | 1Mbps         | 2Mbps   | PHY Coded S2 | PHY Coded S8 |
| BLE  | 2402                   | Default       | Default | Default      | Default      |
|      | 2440                   | Default       | Default | Default      | Default      |
|      | 2480                   | Default       | Default | Default      | Default      |

### 3.10. Tested Supporting System List

#### 3.10.1. Support Peripheral Unit

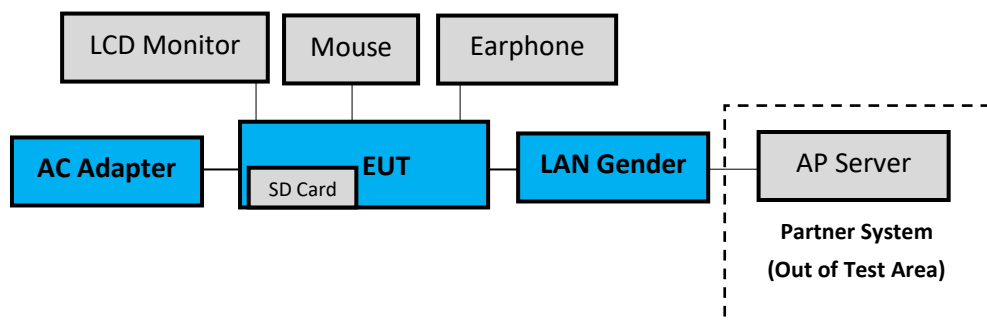
| No.            | Product     | Brand  | Model No.      | Serial No.                   | Approval                                      |
|----------------|-------------|--------|----------------|------------------------------|-----------------------------------------------|
| 1.             | LCD Monitor | DELL   | U2718Qb        | CN-0M5R5F-QDC<br>00-99P-04CL | N/A                                           |
| 2.             | USB Mouse   | Lenovo | SM-8823        | 8SSM50L24506AV<br>LC99H049R  | N/A                                           |
| 3.             | Earphone    | APPLE  | N/A            | N/A                          | N/A                                           |
| 4.             | SD Card     | ADATA  | MicroSDHC Card | N/A                          | N/A                                           |
| Partner System |             |        |                |                              |                                               |
| 5              | AP Server   | ASUS   | RT-AX88U       | N/A                          | FCC ID:<br>MSQ-RTAXHP00<br>IC: 3568A-RTAXHP00 |

#### 3.10.2. Cable Lists

| No. | Cable Description Of The Above Support Units                                                             |
|-----|----------------------------------------------------------------------------------------------------------|
| 1.  | HDMI Cable: Shielded, Detachable, 1.8<br>AC Power Cord: Unshielded, Detachable, 1.8m                     |
| 2.  | USB Cable: Unshielded, Undetachable, 1.8                                                                 |
| 3.  | Earphone Cable: Unshielded, Undetachable, 1.2m                                                           |
| 4.  | N/A                                                                                                      |
| 5.  | AC adapter: M/N:WA-30B12, Cable: Unshielded, Detachable, 1.2m<br>LAN cable: Unshielded, Detachable, 3.0m |
| 6.  | LAN cable: Unshielded, Detachable, 1.8m                                                                  |

### 3.11. Setup Configuration

#### 3.11.1. EUT Configuration for Power Line & Radiated Emission



#### 3.11.2. EUT Configuration for RF Conducted Test Items



### 3.12. Operating Condition of EUT

Test program “DRTU” is used for enabling EUT BT or WLAN function under continues transmitting and choosing data rate/ channel.

[ANT AUX port (A Button in DRTU), ANT Main port (B Button in DRTU)].

### 3.13. Description of Test Facility

|                   |                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Test Firm | Audix Technology Corporation / EMC Department<br>No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan<br>Tel: +886-2-26092133<br>Fax: +886-2-26099303<br>Website : www.audixtech.com<br>Contact e-mail: attemc_report@audixtech.com |
| Accreditations    | The laboratory is accredited by following organizations under ISO/IEC 17025:2017<br>(1) NVLAP(USA)<br>NVLAP Lab Code 200077-0<br>(2) TAF(Taiwan)<br>No. 1724                                                                                   |
| Test Facilities   | FCC OET Designation Number under APEC MRA by NCC is :<br>TW1724<br>ISED CAB Identifier Number under APEC TEL MRA by NCC is<br>TW1724<br>(1) No.8 Shielded Room<br>(2) No.1 3m Semi Anechoic Chamber                                            |

### 3.14.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

| Test Items/Facilities |                                     |                                  | Frequency Range                | Uncertainty     |
|-----------------------|-------------------------------------|----------------------------------|--------------------------------|-----------------|
| Conduction Test       | <input type="checkbox"/>            | No. 7 Shielded Room              | 9kHz-150kHz                    | ±3.7dB          |
|                       |                                     |                                  | 150kHz-30MHz                   | ±3.4dB          |
|                       | <input checked="" type="checkbox"/> | No. 8 Shielded Room              | 9kHz-150kHz                    | ±3.7dB          |
|                       |                                     |                                  | 150kHz-30MHz                   | ±3.5dB          |
| Radiation Test        | <input checked="" type="checkbox"/> | No.1 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±3.6dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.3dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.4dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.8dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.8dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±4.5dB          |
|                       | <input type="checkbox"/>            | No.3 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±4.0dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.4dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.7dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.5dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.8dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±4.5dB          |
|                       | <input type="checkbox"/>            | No.4 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±4.3dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.2dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.8dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.7dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.6dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±4.4dB          |
|                       | <input type="checkbox"/>            | No.5 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±4.6dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.4dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.5dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.9dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.9dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±4.6dB          |
|                       |                                     | Radiated emissions (18GHz-40GHz) |                                | 18GHz-40GHz, 3m |

Remark : Uncertainty =  $k_{uc}(y)$

| Test Item                 | Uncertainty |
|---------------------------|-------------|
| Maximum peak output power | ± 0.33dB    |

## 4. MEASUREMENT EQUIPMENT LIST

### 4.1. Conducted Emission Measurement

| Item | Type                       | Manufacturer | Model No. | Serial No. | Cal. Date    | Cal. Interval |
|------|----------------------------|--------------|-----------|------------|--------------|---------------|
| 1.   | Test Receiver              | R&S          | ESR3      | 101774     | 2023. 01. 11 | 1 Year        |
| 2.   | A.M.N.                     | R&S          | ENV432    | 101567     | 2023. 06. 02 | 1 Year        |
| 3.   | L.I.S.N.                   | Kyoritsu     | KNW-407   | 8-855-9    | 2022. 12. 19 | 1 Year        |
| 4.   | Pulse Limiter              | R&S          | ESH3-Z2   | 100354     | 2022. 12. 14 | 1 Year        |
| 5.   | Digital Thermo-Hygro Meter | iMax         | HTC-1     | No.8 S/R   | 2023. 04. 13 | 1 Year        |
| 6.   | Coaxial Cable              | Yeida        | RG/58AU   | CE-08      | 2023. 09. 06 | 1 Year        |
| 7.   | Test Software              | Audix        | e3        | V9 18621a  | N.C.R.       | N.C.R.        |

## 4.2. Radiated Emission Measurement

| Item | Type                       | Manufacturer  | Model No.                    | Serial No.  | Cal. Date  | Cal. Interval |
|------|----------------------------|---------------|------------------------------|-------------|------------|---------------|
| 1.   | Spectrum Analyzer          | Agilent       | N9010A-526                   | MY53400071  | 2023.08.16 | 1 Year        |
| 2.   | Test Receiver              | R&S           | ESCS30                       | 100338      | 2023.06.20 | 1 Year        |
| 3.   | Amplifier                  | HP            | 8447D                        | 2944A06305  | 2022.12.29 | 1 Year        |
| 4.   | Microwave Amplifier        | Keysight      | 83051A                       | MY56480113  | 2023.09.11 | 1 Year        |
| 5.   | Microwave Amplifier        | Agilent       | 8449B                        | 3008A02678  | 2023.02.17 | 1 Year        |
| 6.   | Loop Antenna               | TESEQ         | HLA 6121                     | 60478       | 2023.02.21 | 1 Year        |
| 7.   | Bilog Antenna              | TESEQ         | CBL6112D                     | 33821       | 2023.06.30 | 1 Year        |
| 8.   | Horn Antenna               | EMCO          | 3115                         | 9609-4927   | 2023.07.21 | 1 Year        |
| 9.   | Horn Antenna               | COM-POWER     | AH-840                       | 101092      | 2022.12.30 | 1 Year        |
| 10.  | 2.4GHz Notch Filter        | K&L Microwave | 7NSL10-2441.5/E<br>130.5-O/O | 2           | 2023.07.22 | 1 Year        |
| 11.  | 3GHz Notch Filter          | Microwave     | H3G018G1                     | 484796      | 2023.07.22 | 1 Year        |
| 12.  | Coaxial Cable              | MIYAZAKI      | 5D2W                         | RE-11       | 2023.01.07 | 1 Year        |
| 13.  | Coaxial Cable              | HUBER+SUHNER  | RG223/U                      | RE-33       | 2023.03.02 | 1 Year        |
| 14.  | Coaxial Cable              | HUBER+SUHNER  | SUCOFLEX 106                 | RE-14       | 2023.01.07 | 1 Year        |
| 15.  | Coaxial Cable              | HUBER+SUHNER  | SUCOFLEX 102                 | RE-30       | 2023.08.21 | 1 Year        |
| 16.  | Digital Thermo-Hygro Meter | iMax          | HTC-1                        | No.1 3m A/C | 2023.04.13 | 1 Year        |
| 17.  | Test Software              | Audix         | e3                           | V9 18621a   | N.C.R.     | N.C.R.        |

## 4.3. RF Conducted Measurement

| Item | Type                       | Manufacturer | Model No. | Serial No. | Cal. Date    | Cal. Interval |
|------|----------------------------|--------------|-----------|------------|--------------|---------------|
| 1.   | Power Meter                | Anritsu      | ML2495A   | 2127005    | 2022. 12. 01 | 1 Year        |
| 2.   | Power Meter                | Anritsu      | ML2495A   | 2127004    | 2022. 12. 07 | 1 Year        |
| 3.   | Power Sensor               | Anritsu      | MA2411B   | 1911360    | 2022. 12. 07 | 1 Year        |
| 4.   | Power Sensor               | Anritsu      | MA2411B   | 1911356    | 2022. 12. 01 | 1 Year        |
| 5.   | Digital Thermo-Hygro Meter | iMax         | HTC-1     | RF-03      | 2023. 04. 13 | 1 Year        |

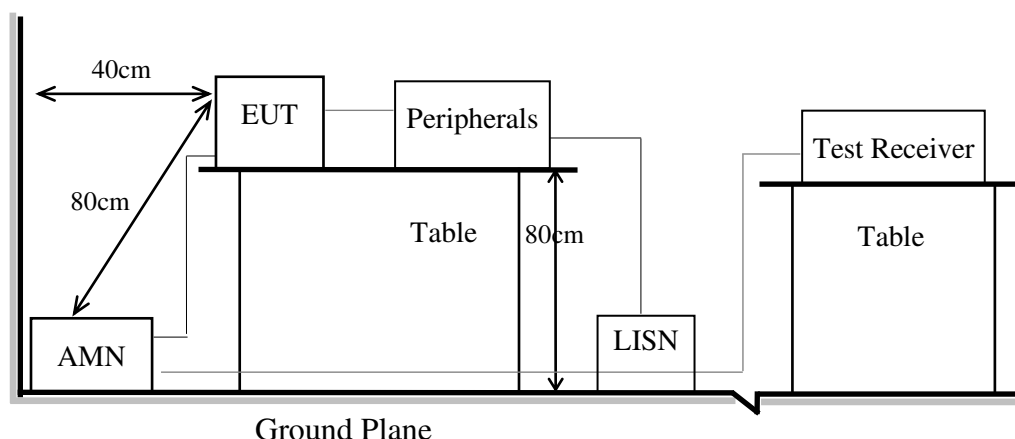
## 5. CONDUCTED EMISSION

### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block Diagram of EUT

Indicated as section 3.11

#### 5.1.2. Shielded Room Setup Diagram



### 5.2. Conducted Emission Limit

| Frequency       | Conducted Limit    |                    |
|-----------------|--------------------|--------------------|
|                 | Quasi-Peak Level   | Average Level      |
| 150kHz ~ 500kHz | 66 ~ 56 dB $\mu$ V | 56 ~ 46 dB $\mu$ V |
| 500kHz ~ 5MHz   | 56 dB $\mu$ V      | 46 dB $\mu$ V      |
| 5MHz ~ 30MHz    | 60 dB $\mu$ V      | 50 dB $\mu$ V      |

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

### 5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

### 5.4. Test Results

Please refer to Appendix A.

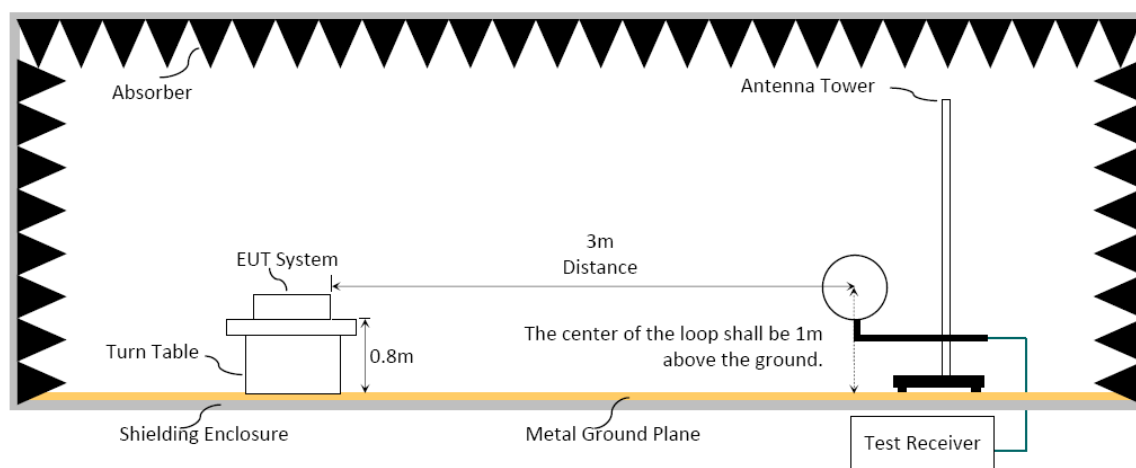
## 6. RADIATED EMISSION

### 6.1. Block Diagram of Test Setup

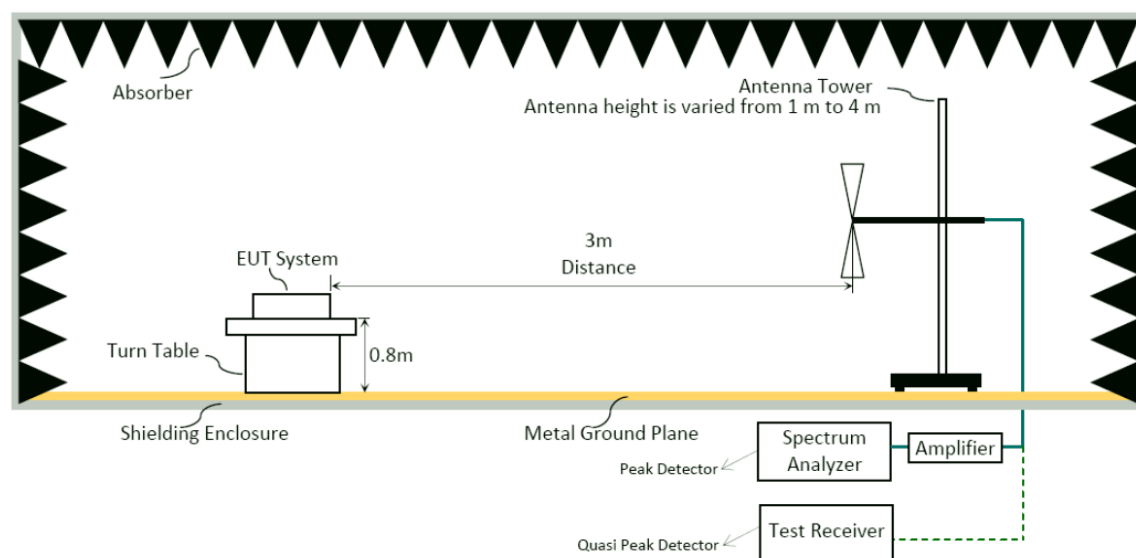
#### 6.1.1. Block Diagram of EUT

Indicated as section 3.11

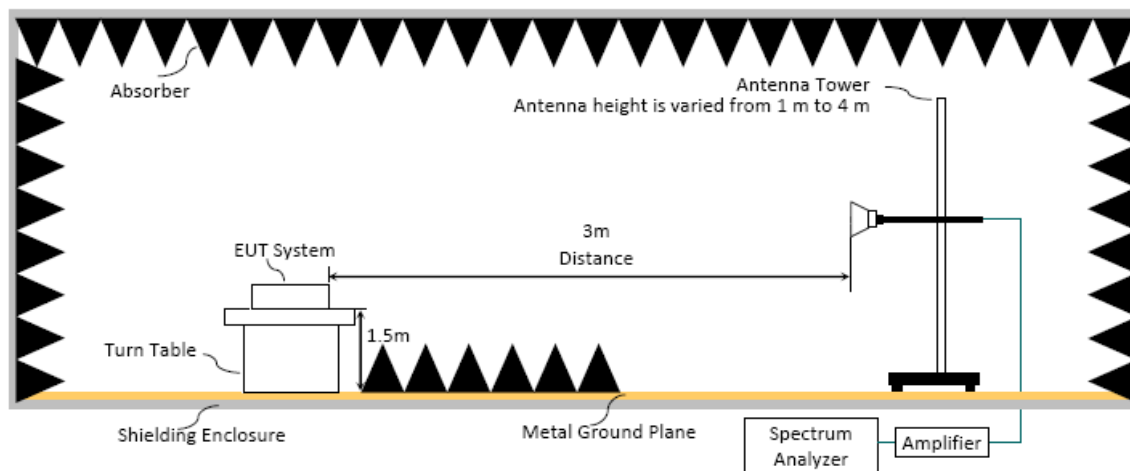
#### 6.1.2. Setup Diagram for 9kHz-30MHz



#### 6.1.3. Setup Diagram for 30-1000MHz



#### 6.1.4. Setup Diagram for above 1GHz



## 6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

| Frequency (MHz) | Distance(m) | Limits                                      |             |
|-----------------|-------------|---------------------------------------------|-------------|
|                 |             | dBμV/m                                      | μV/m        |
| 0.009 - 0.490   | 300         | 67.6-20 log f(kHz)                          | 2400/f kHz  |
| 0.490 - 1.705   | 30          | 87.6-20 log f(kHz)                          | 24000/f kHz |
| 1.705 - 30      | 30          | 29.5                                        | 30          |
| 30 - 88         | 3           | 40.0                                        | 100         |
| 88- 216         | 3           | 43.5                                        | 150         |
| 216- 960        | 3           | 46.0                                        | 200         |
| Above 960       | 3           | 54.0                                        | 500         |
| Above 1000      | 3           | 74.0 dBμV/m (Peak)<br>54.0 dBμV/m (Average) |             |

Remark : (1)  $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

### 6.3. Test Procedure

#### Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)  
Q.P. (490kHz-30MHz)

#### Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

#### Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW  $\geq 3 \times$  RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

#### Frequency above 1GHz to 10th harmonic (up to 25 GHz):

##### Peak Detector:

- (1) RBW = 1MHz
- (2) VBW  $\geq 3 \times$  RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

### Average Detector:

#### ■ Option 1:

(1) RBW = 1MHz

(2) VBW  $\geq 1/T$ . (Duty Cycle  $< 98\%$ , when duty cycle presented in section 3.8)

| Modulation Type               | VBW Setting (VBW $\geq 1/T$ ) |
|-------------------------------|-------------------------------|
| BLE (2Mbps)                   | 3.6kHz                        |
| 802.11g                       | 510Hz                         |
| 802.11ax-HE20 (RU Config 26)  | 2.0kHz                        |
| 802.11ax-HE20 (RU Config 52)  | 1.5kHz                        |
| 802.11ax-HE20 (RU Config 106) | 680Hz                         |

VBW = 10Hz (Duty Cycle  $\geq 98\%$ , when duty cycle presented in section 3.8)

| Modulation Type               | VBW Setting |
|-------------------------------|-------------|
| 802.11b                       | 10Hz        |
| 802.11n-HT20                  | 10Hz        |
| 802.11n-HT40                  | 10Hz        |
| 802.11ax-HE20                 | 10Hz        |
| 802.11ax-HE40                 | 10Hz        |
| 802.11ax-HE40 (RU Config 242) | 10Hz        |

(4) Detector = Peak.

(5) Sweep time = auto.

(6) Trace mode = max hold.

(7) Allow sweeps to continue until the trace stabilizes.

#### □ Option 2:

Average Emission Level = Peak Emission Level + D.C.C.F.

## 6.4. Measurement Result Explanation

■ Peak Emission Level (dB $\mu$ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB $\mu$ V).

■ Average Emission Level (dB $\mu$ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB $\mu$ V).

□ Average Emission Level (dB $\mu$ V/m) = Peak Emission Level (dB $\mu$ V/m) + DCCF (dB)  
Duty Cycle Correction Factor (DCCF) (dB) =  $20\log(TX_{on}/TX_{on+off})$  presented in section 3.8.

□ ERP (dBm) = Peak Emission Level (dB $\mu$ V/m) - 95.2dB - 2.14dB

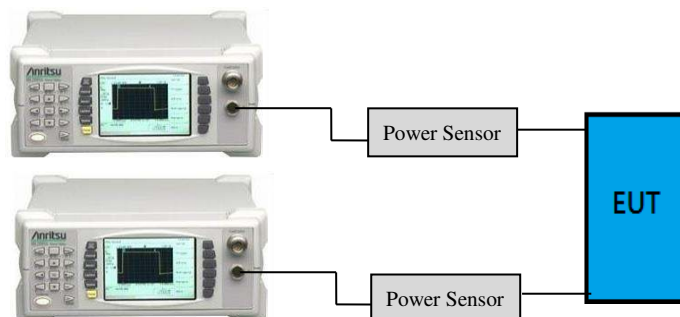
## 6.5. Test Results

Please refer to Appendix A.

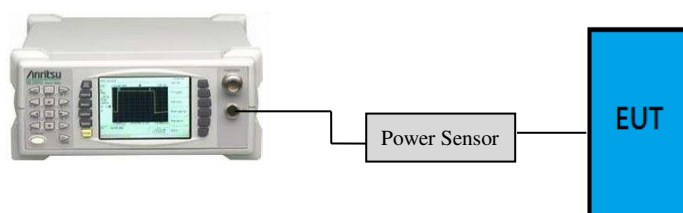
## 7. MAXIMUM PEAK OUTPUT POWER

### 7.1. Block Diagram of Test Setup

- For WLAN Function



- For BLE Function



### 7.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

### 7.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

☒ **PKPM1 Peak power meter method:**

EUT is connected to power sensor and record the maximum output power.

☐ **Maximum peak conducted output power method:**

- (1) Set the RBW  $\geq$  DTS bandwidth
- (2) Set VBW  $\geq 3 \times$  RBW
- (3) Set span  $\geq 3 \times$  RBW.
- (4) Sweep time = auto couple
- (5) Detector = peak.
- (6) Trace mode = max hold.
- (7) Allow trace to fully stabilize.
- (8) Use peak marker function to determine the peak amplitude level.

☒ **Method AVGPM (Measurement using an RF average power meter):**

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.8 is  $< 98\%$ .

☐ **Method AVGSA-2 (Spectrum channel power)**

- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.8 is  $< 98\%$ .

### 7.4. Test Results

Please refer to Appendix A



## **8. DEVIATION TO TEST SPECIFICATIONS**

**【NONE】**



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**APPENDIX A**

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# APPENDIX A

## TEST DATA AND PLOTS

(Model: 17Z90S)

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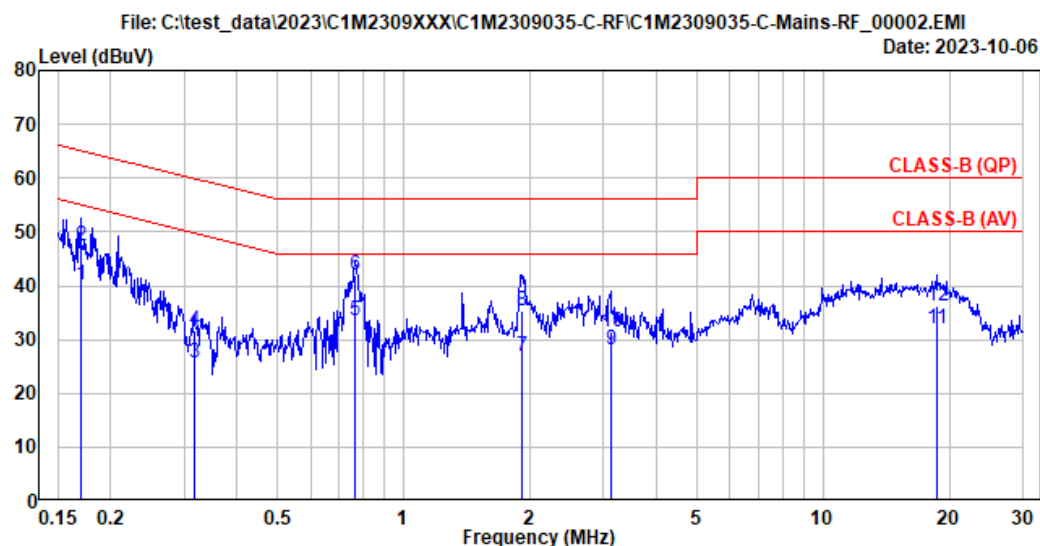
|                                                         |           |
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## A.1 CONDUCTED EMISSION

|              |                                                |            |          |
|--------------|------------------------------------------------|------------|----------|
| Test Date    | 2023/10/06                                     | Temp./Hum. | 24°C/55% |
| Test Voltage | AC 120V 60Hz (Via AC Adapter)                  | Tested By  | Roy Hung |
| Test SKU     | SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna] |            |          |



Site No. : No.8 Shielded Room  
Instrument 1 : Receiver ESR(774)  
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)  
Limit : CLASS-B (QP)  
Environment : 24°C/55%  
EUT Model : 17Z90S  
Test Mode : Operating  
Inpaq

Data No. : 2  
Phase : Neutral  
Test Rating : 120Vac/60Hz  
Engineer : Roy Hung

|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.170          | 10.30                 | 0.03                  | 9.85                  | 20.04             | 40.22                       | 54.97            | 14.75          | Average |
| 2  | 0.170          | 10.30                 | 0.03                  | 9.85                  | 27.29             | 47.47                       | 64.97            | 17.50          | QP      |
| 3  | 0.317          | 10.28                 | 0.03                  | 9.85                  | 5.60              | 25.76                       | 49.79            | 24.03          | Average |
| 4  | 0.317          | 10.28                 | 0.03                  | 9.85                  | 11.51             | 31.67                       | 59.79            | 28.12          | QP      |
| 5  | 0.765          | 10.29                 | 0.04                  | 9.85                  | 13.36             | 33.54                       | 46.00            | 12.46          | Average |
| 6  | 0.765          | 10.29                 | 0.04                  | 9.85                  | 21.73             | 41.91                       | 56.00            | 14.09          | QP      |
| 7  | 1.915          | 10.32                 | 0.06                  | 9.86                  | 6.78              | 27.02                       | 46.00            | 18.98          | Average |
| 8  | 1.915          | 10.32                 | 0.06                  | 9.86                  | 15.21             | 35.45                       | 56.00            | 20.55          | QP      |
| 9  | 3.122          | 10.35                 | 0.07                  | 9.86                  | 7.91              | 28.19                       | 46.00            | 17.81          | Average |
| 10 | 3.122          | 10.35                 | 0.07                  | 9.86                  | 11.21             | 31.49                       | 56.00            | 24.51          | QP      |
| 11 | 18.684         | 10.94                 | 0.19                  | 9.93                  | 10.79             | 31.85                       | 50.00            | 18.15          | Average |
| 12 | 18.684         | 10.94                 | 0.19                  | 9.93                  | 15.09             | 36.15                       | 60.00            | 23.85          | QP      |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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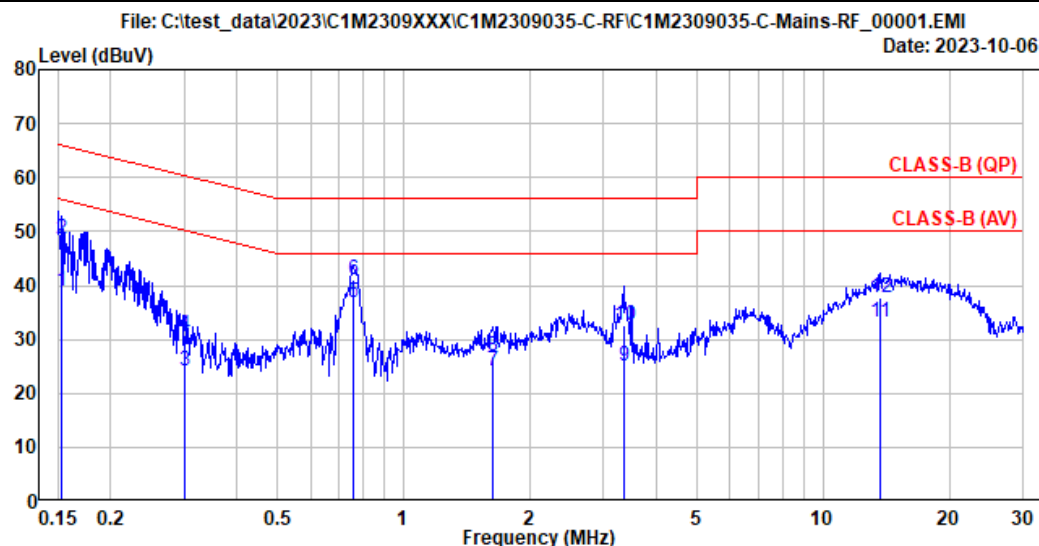
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|              |                                                |            |          |
|--------------|------------------------------------------------|------------|----------|
| Test Date    | 2023/10/06                                     | Temp./Hum. | 24°C/55% |
| Test Voltage | AC 120V 60Hz (Via AC Adapter)                  | Tested By  | Roy Hung |
| Test SKU     | SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna] |            |          |



|              |                                       |             |               |
|--------------|---------------------------------------|-------------|---------------|
| Site No.     | : No.8 Shielded Room                  | Data No.    | : 1           |
| Instrument 1 | : Receiver ESR(774)                   |             |               |
| Instrument 2 | : ENV432 (567)(A) CE-08 ESH3-Z2 (354) |             |               |
| Limit        | : CLASS-B (QP)                        | Phase       | : Line        |
| Environment  | : 24°C/55%                            | Test Rating | : 120Vac/60Hz |
| EUT Model    | : 17Z90S                              | Engineer    | : Roy Hung    |
| Test Mode    | : Operating Inpaq                     |             |               |

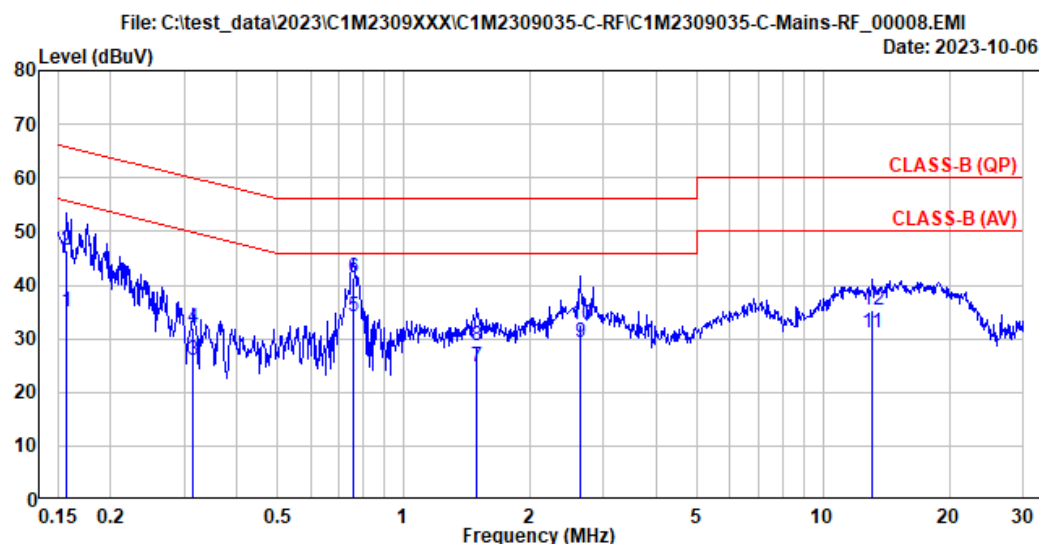
|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.153          | 10.30                 | 0.03                  | 9.85                  | 18.81             | 38.99                       | 55.83            | 16.84          | Average |
| 2  | 0.153          | 10.30                 | 0.03                  | 9.85                  | 28.43             | 48.61                       | 65.83            | 17.22          | QP      |
| 3  | 0.300          | 10.27                 | 0.03                  | 9.85                  | 3.93              | 24.08                       | 50.25            | 26.17          | Average |
| 4  | 0.300          | 10.27                 | 0.03                  | 9.85                  | 10.65             | 30.80                       | 60.25            | 29.45          | QP      |
| 5  | 0.758          | 10.28                 | 0.04                  | 9.85                  | 16.69             | 36.86                       | 46.00            | 9.14           | Average |
| 6  | 0.758          | 10.28                 | 0.04                  | 9.85                  | 20.82             | 40.99                       | 56.00            | 15.01          | QP      |
| 7  | 1.625          | 10.29                 | 0.05                  | 9.86                  | 3.83              | 24.03                       | 46.00            | 21.97          | Average |
| 8  | 1.625          | 10.29                 | 0.05                  | 9.86                  | 6.72              | 26.92                       | 56.00            | 29.08          | QP      |
| 9  | 3.347          | 10.32                 | 0.07                  | 9.86                  | 4.75              | 25.00                       | 46.00            | 21.00          | Average |
| 10 | 3.347          | 10.32                 | 0.07                  | 9.86                  | 12.20             | 32.45                       | 56.00            | 23.55          | QP      |
| 11 | 13.649         | 10.58                 | 0.16                  | 9.91                  | 12.58             | 33.23                       | 50.00            | 16.77          | Average |
| 12 | 13.649         | 10.58                 | 0.16                  | 9.91                  | 17.08             | 37.73                       | 60.00            | 22.27          | QP      |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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|              |                                                    |            |          |
|--------------|----------------------------------------------------|------------|----------|
| Test Date    | 2023/10/06                                         | Temp./Hum. | 24°C/55% |
| Test Voltage | AC 120V 60Hz (Via AC Adapter)                      | Tested By  | Roy Hung |
| Test SKU     | SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna] |            |          |



|              |                                       |             |               |
|--------------|---------------------------------------|-------------|---------------|
| Site No.     | : No.8 Shielded Room                  | Data No.    | : 8           |
| Instrument 1 | : Receiver ESR(774)                   |             |               |
| Instrument 2 | : ENV432 (567)(A) CE-08 ESH3-Z2 (354) |             |               |
| Limit        | : CLASS-B (QP)                        | Phase       | : Neutral     |
| Environment  | : 24°C/55%                            | Test Rating | : 120Vac/60Hz |
| EUT Model    | : 17Z90S                              | Engineer    | : Roy Hung    |
| Test Mode    | : Operating                           |             |               |
|              | Luxshare                              |             |               |

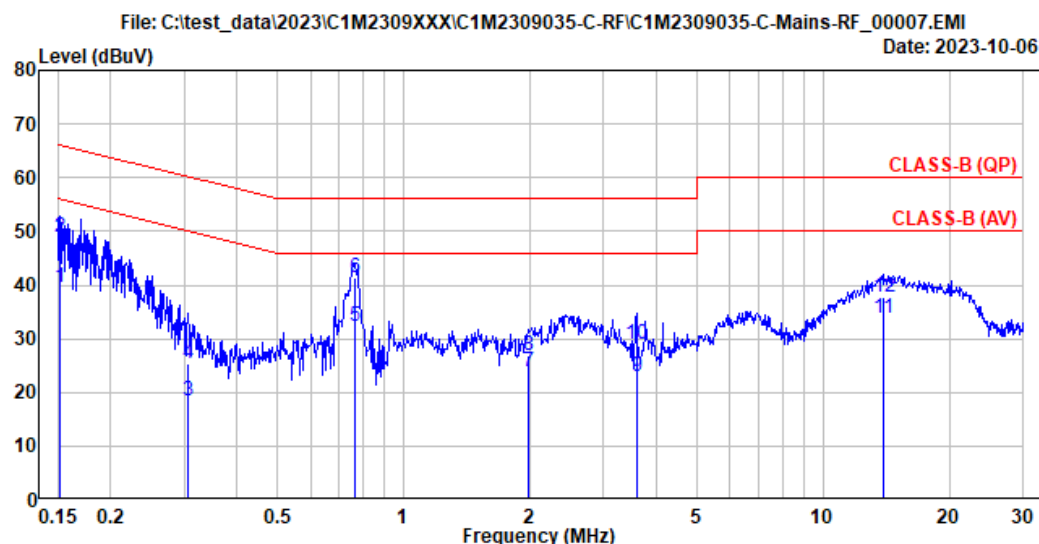
|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.157          | 10.30                 | 0.03                  | 9.85                  | 14.90             | 35.08                       | 55.63            | 20.55          | Average |
| 2  | 0.157          | 10.30                 | 0.03                  | 9.85                  | 26.37             | 46.55                       | 65.63            | 19.08          | QP      |
| 3  | 0.315          | 10.28                 | 0.03                  | 9.85                  | 5.85              | 26.01                       | 49.83            | 23.82          | Average |
| 4  | 0.315          | 10.28                 | 0.03                  | 9.85                  | 11.73             | 31.89                       | 59.83            | 27.94          | QP      |
| 5  | 0.762          | 10.29                 | 0.04                  | 9.85                  | 14.02             | 34.20                       | 46.00            | 11.80          | Average |
| 6  | 0.762          | 10.29                 | 0.04                  | 9.85                  | 21.30             | 41.48                       | 56.00            | 14.52          | QP      |
| 7  | 1.493          | 10.31                 | 0.05                  | 9.86                  | 4.61              | 24.83                       | 46.00            | 21.17          | Average |
| 8  | 1.493          | 10.31                 | 0.05                  | 9.86                  | 8.58              | 28.80                       | 56.00            | 27.20          | QP      |
| 9  | 2.635          | 10.34                 | 0.07                  | 9.86                  | 8.95              | 29.22                       | 46.00            | 16.78          | Average |
| 10 | 2.635          | 10.34                 | 0.07                  | 9.86                  | 12.28             | 32.55                       | 56.00            | 23.45          | QP      |
| 11 | 13.116         | 10.73                 | 0.16                  | 9.90                  | 10.39             | 31.18                       | 50.00            | 18.82          | Average |
| 12 | 13.116         | 10.73                 | 0.16                  | 9.90                  | 14.56             | 35.35                       | 60.00            | 24.65          | QP      |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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|              |                                                    |            |          |
|--------------|----------------------------------------------------|------------|----------|
| Test Date    | 2023/10/06                                         | Temp./Hum. | 24°C/55% |
| Test Voltage | AC 120V 60Hz (Via AC Adapter)                      | Tested By  | Roy Hung |
| Test SKU     | SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna] |            |          |



|              |                                       |             |               |
|--------------|---------------------------------------|-------------|---------------|
| Site No.     | : No.8 Shielded Room                  | Data No.    | : 7           |
| Instrument 1 | : Receiver ESR(774)                   |             |               |
| Instrument 2 | : ENV432 (567)(A) CE-08 ESH3-Z2 (354) |             |               |
| Limit        | : CLASS-B (QP)                        | Phase       | : Line        |
| Environment  | : 24°C/55%                            | Test Rating | : 120Vac/60Hz |
| EUT Model    | : 17Z90S                              | Engineer    | : Roy Hung    |
| Test Mode    | : Operating<br>Luxshare               |             |               |

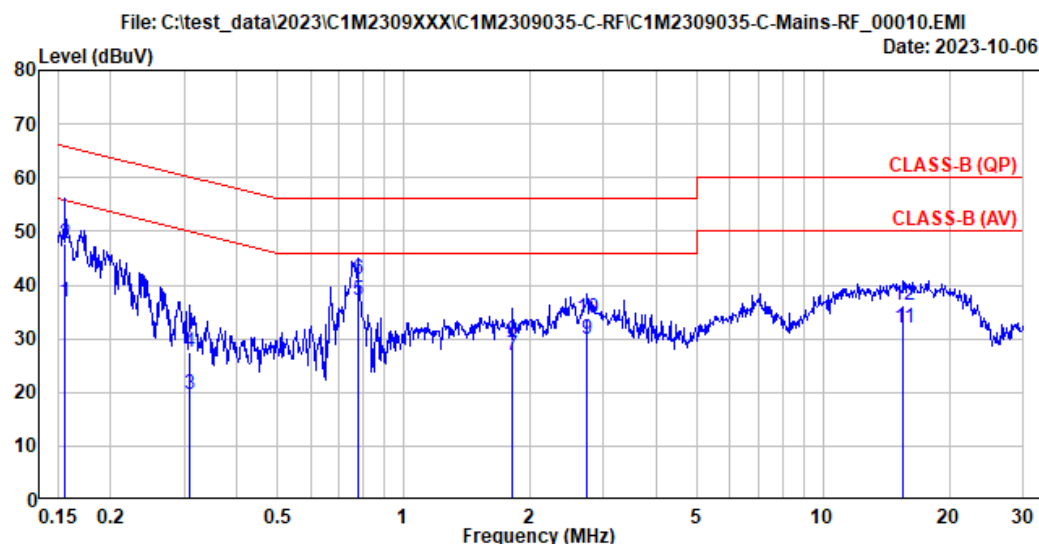
|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.152          | 10.30                 | 0.03                  | 9.85                  | 19.25             | 39.43                       | 55.92            | 16.49          | Average |
| 2  | 0.152          | 10.30                 | 0.03                  | 9.85                  | 28.78             | 48.96                       | 65.92            | 16.96          | QP      |
| 3  | 0.306          | 10.27                 | 0.03                  | 9.85                  | -1.68             | 18.47                       | 50.08            | 31.61          | Average |
| 4  | 0.306          | 10.27                 | 0.03                  | 9.85                  | 5.18              | 25.33                       | 60.08            | 34.75          | QP      |
| 5  | 0.765          | 10.28                 | 0.04                  | 9.85                  | 12.25             | 32.42                       | 46.00            | 13.58          | Average |
| 6  | 0.765          | 10.28                 | 0.04                  | 9.85                  | 21.04             | 41.21                       | 56.00            | 14.79          | QP      |
| 7  | 1.983          | 10.30                 | 0.06                  | 9.86                  | 3.71              | 23.93                       | 46.00            | 22.07          | Average |
| 8  | 1.983          | 10.30                 | 0.06                  | 9.86                  | 6.56              | 26.78                       | 56.00            | 29.22          | QP      |
| 9  | 3.589          | 10.33                 | 0.08                  | 9.86                  | 2.53              | 22.80                       | 46.00            | 23.20          | Average |
| 10 | 3.589          | 10.33                 | 0.08                  | 9.86                  | 8.75              | 29.02                       | 56.00            | 26.98          | QP      |
| 11 | 13.924         | 10.58                 | 0.16                  | 9.91                  | 13.02             | 33.67                       | 50.00            | 16.33          | Average |
| 12 | 13.924         | 10.58                 | 0.16                  | 9.91                  | 17.23             | 37.88                       | 60.00            | 22.12          | QP      |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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|              |                                                |            |          |
|--------------|------------------------------------------------|------------|----------|
| Test Date    | 2023/10/06                                     | Temp./Hum. | 24°C/55% |
| Test Voltage | AC 120V 60Hz (Via AC Adapter)                  | Tested By  | Roy Hung |
| Test SKU     | SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna] |            |          |



|              |                                       |             |               |
|--------------|---------------------------------------|-------------|---------------|
| Site No.     | : No.8 Shielded Room                  | Data No.    | : 10          |
| Instrument 1 | : Receiver ESR(774)                   |             |               |
| Instrument 2 | : ENV432 (567)(A) CE-08 ESH3-Z2 (354) |             |               |
| Limit        | : CLASS-B (QP)                        | Phase       | : Neutral     |
| Environment  | : 24°C/55%                            | Test Rating | : 120Vac/60Hz |
| EUT Model    | : 17Z90S                              | Engineer    | : Roy Hung    |
| Test Mode    | : Operating Touch                     |             |               |

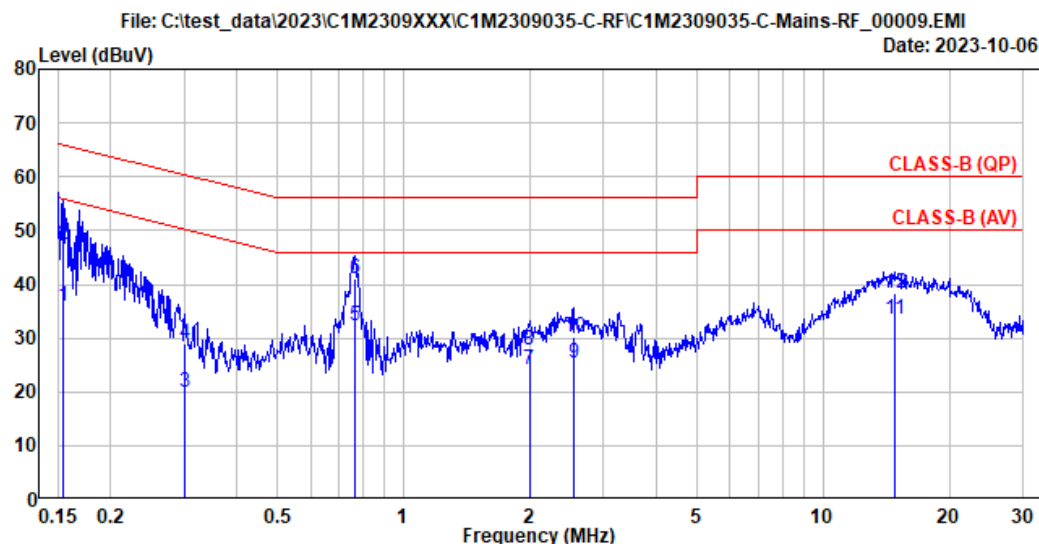
|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.156          | 10.30                 | 0.03                  | 9.85                  | 16.76             | 36.94                       | 55.67            | 18.73          | Average |
| 2  | 0.156          | 10.30                 | 0.03                  | 9.85                  | 27.64             | 47.82                       | 65.67            | 17.85          | QP      |
| 3  | 0.309          | 10.28                 | 0.03                  | 9.85                  | -0.54             | 19.62                       | 50.00            | 30.38          | Average |
| 4  | 0.309          | 10.28                 | 0.03                  | 9.85                  | 7.44              | 27.60                       | 60.00            | 32.40          | QP      |
| 5  | 0.777          | 10.29                 | 0.04                  | 9.85                  | 16.82             | 37.00                       | 46.00            | 9.00           | Average |
| 6  | 0.777          | 10.29                 | 0.04                  | 9.85                  | 20.74             | 40.92                       | 56.00            | 15.08          | QP      |
| 7  | 1.822          | 10.32                 | 0.06                  | 9.86                  | 6.49              | 26.73                       | 46.00            | 19.27          | Average |
| 8  | 1.822          | 10.32                 | 0.06                  | 9.86                  | 9.47              | 29.71                       | 56.00            | 26.29          | QP      |
| 9  | 2.742          | 10.34                 | 0.07                  | 9.86                  | 9.62              | 29.89                       | 46.00            | 16.11          | Average |
| 10 | 2.742          | 10.34                 | 0.07                  | 9.86                  | 13.40             | 33.67                       | 56.00            | 22.33          | QP      |
| 11 | 15.538         | 10.83                 | 0.17                  | 9.91                  | 11.24             | 32.15                       | 50.00            | 17.85          | Average |
| 12 | 15.538         | 10.83                 | 0.17                  | 9.91                  | 15.46             | 36.37                       | 60.00            | 23.63          | QP      |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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|              |                                                |            |          |
|--------------|------------------------------------------------|------------|----------|
| Test Date    | 2023/10/06                                     | Temp./Hum. | 24°C/55% |
| Test Voltage | AC 120V 60Hz (Via AC Adapter)                  | Tested By  | Roy Hung |
| Test SKU     | SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna] |            |          |



|              |                                       |             |               |
|--------------|---------------------------------------|-------------|---------------|
| Site No.     | : No.8 Shielded Room                  | Data No.    | : 9           |
| Instrument 1 | : Receiver ESR(774)                   |             |               |
| Instrument 2 | : ENV432 (567)(A) CE-08 ESH3-Z2 (354) |             |               |
| Limit        | : CLASS-B (QP)                        | Phase       | : Line        |
| Environment  | : 24°C/55%                            | Test Rating | : 120Vac/60Hz |
| EUT Model    | : 17Z90S                              | Engineer    | : Roy Hung    |
| Test Mode    | : Operating Touch                     |             |               |

|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.155          | 10.30                 | 0.03                  | 9.85                  | 15.61             | 35.79                       | 55.75            | 19.96          | Average |
| 2  | 0.155          | 10.30                 | 0.03                  | 9.85                  | 27.09             | 47.27                       | 65.75            | 18.48          | QP      |
| 3  | 0.301          | 10.27                 | 0.03                  | 9.85                  | -0.17             | 19.98                       | 50.20            | 30.22          | Average |
| 4  | 0.301          | 10.27                 | 0.03                  | 9.85                  | 8.72              | 28.87                       | 60.20            | 31.33          | QP      |
| 5  | 0.765          | 10.28                 | 0.04                  | 9.85                  | 12.27             | 32.44                       | 46.00            | 13.56          | Average |
| 6  | 0.765          | 10.28                 | 0.04                  | 9.85                  | 20.95             | 41.12                       | 56.00            | 14.88          | QP      |
| 7  | 1.993          | 10.30                 | 0.06                  | 9.86                  | 3.94              | 24.16                       | 46.00            | 21.84          | Average |
| 8  | 1.993          | 10.30                 | 0.06                  | 9.86                  | 7.41              | 27.63                       | 56.00            | 28.37          | QP      |
| 9  | 2.545          | 10.31                 | 0.07                  | 9.86                  | 5.02              | 25.26                       | 46.00            | 20.74          | Average |
| 10 | 2.545          | 10.31                 | 0.07                  | 9.86                  | 9.82              | 30.06                       | 56.00            | 25.94          | QP      |
| 11 | 14.782         | 10.61                 | 0.17                  | 9.91                  | 12.83             | 33.52                       | 50.00            | 16.48          | Average |
| 12 | 14.782         | 10.61                 | 0.17                  | 9.91                  | 17.55             | 38.24                       | 60.00            | 21.76          | QP      |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

## A.2 RADIATED EMISSION

|              |                               |            |                             |
|--------------|-------------------------------|------------|-----------------------------|
| Test Date    | 2023/09/26~10/06              | Temp./Hum. | 23~25°C/55~63%              |
| Test Voltage | AC 120V 60Hz (Via AC Adapter) | Tested By  | (1)Martin Chen<br>(2)Hua Wu |

### A.2.1 Emissions within Restricted Frequency Bands

#### A.2.1.1 Frequency 9kHz~30MHz

**The emissions (9kHz~30MHz) not reported for there is no emission be found.**

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## A.2.1.2 Frequency Below 1GHz

## ● Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna]

| Mode | 802.11ax-HE20 | Frequency | TX 2442MHz |
|------|---------------|-----------|------------|
|------|---------------|-----------|------------|

## Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 34.850                   | 22.21                 | 1.30            | 26.51                  | 34.95             | 31.95                   | 40.00           | 8.05        | Peak     |
| 145.592                  | 16.83                 | 2.82            | 26.04                  | 32.03             | 25.65                   | 43.50           | 17.85       | Peak     |
| 206.217                  | 15.67                 | 3.46            | 25.80                  | 34.25             | 27.58                   | 43.50           | 15.92       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35                  | 37.29             | 37.28                   | 46.00           | 8.72        | Peak     |
| 496.408                  | 23.07                 | 6.37            | 27.14                  | 32.09             | 34.39                   | 46.00           | 11.61       | Peak     |
| 591.792                  | 24.25                 | 6.73            | 27.39                  | 32.06             | 35.65                   | 46.00           | 10.35       | Peak     |

## Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 35.658                   | 21.78                 | 1.31            | 0.00                   | 14.77             | 37.86                   | 40.00           | 2.14        | QP       |
| 144.783                  | 16.88                 | 2.82            | 26.04                  | 40.91             | 34.56                   | 43.50           | 8.94        | Peak     |
| 198.942                  | 15.29                 | 3.39            | 25.81                  | 37.66             | 30.52                   | 43.50           | 12.98       | Peak     |
| 320.192                  | 19.51                 | 4.62            | 25.85                  | 30.71             | 28.98                   | 46.00           | 17.02       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35                  | 36.34             | 36.33                   | 46.00           | 9.67        | Peak     |
| 490.750                  | 23.01                 | 6.33            | 27.11                  | 32.37             | 34.60                   | 46.00           | 11.40       | Peak     |

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|

## Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 35.658                   | 21.78                 | 1.31            | 26.51                  | 36.12             | 32.69                   | 40.00           | 7.31        | Peak     |
| 148.017                  | 16.69                 | 2.85            | 26.03                  | 33.54             | 27.06                   | 43.50           | 16.44       | Peak     |
| 219.150                  | 16.43                 | 3.59            | 25.78                  | 35.58             | 29.82                   | 46.00           | 16.18       | Peak     |
| 345.250                  | 20.22                 | 4.92            | 26.08                  | 31.82             | 30.89                   | 46.00           | 15.11       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35                  | 36.89             | 36.88                   | 46.00           | 9.12        | Peak     |
| 524.700                  | 23.45                 | 6.50            | 27.23                  | 32.64             | 35.36                   | 46.00           | 10.64       | Peak     |

## Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 35.658                   | 21.78                 | 1.31            | 0.00                   | 15.25             | 38.34                   | 40.00           | 1.66        | QP       |
| 145.592                  | 16.83                 | 2.82            | 26.04                  | 40.30             | 33.92                   | 43.50           | 9.58        | Peak     |
| 200.558                  | 15.33                 | 3.41            | 25.81                  | 40.19             | 33.11                   | 43.50           | 10.39       | Peak     |
| 311.300                  | 19.25                 | 4.51            | 25.77                  | 31.75             | 29.74                   | 46.00           | 16.26       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35                  | 37.03             | 37.02                   | 46.00           | 8.98        | Peak     |
| 496.408                  | 23.07                 | 6.37            | 27.14                  | 32.92             | 35.22                   | 46.00           | 10.78       | Peak     |

## ● Test SKU: SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]

| Mode | 802.11ax-HE20 | Frequency | TX 2442MHz |
|------|---------------|-----------|------------|
|------|---------------|-----------|------------|

## Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 33.233                   | 22.77                 | 1.27            | 26.52                  | 36.08             | 33.60                   | 40.00           | 6.40        | Peak     |
| 145.592                  | 16.83                 | 2.82            | 26.04                  | 34.36             | 27.98                   | 43.50           | 15.52       | Peak     |
| 248.250                  | 18.00                 | 3.86            | 25.73                  | 34.80             | 30.93                   | 46.00           | 15.07       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35                  | 35.50             | 35.49                   | 46.00           | 10.51       | Peak     |
| 474.583                  | 22.77                 | 6.19            | 27.01                  | 32.00             | 33.96                   | 46.00           | 12.04       | Peak     |
| 548.950                  | 23.76                 | 6.58            | 27.29                  | 32.72             | 35.77                   | 46.00           | 10.23       | Peak     |

## Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 34.850                   | 22.21                 | 1.30            | 0.00                   | 15.17             | 38.67                   | 40.00           | 1.33        | QP       |
| 146.400                  | 16.79                 | 2.83            | 26.04                  | 41.08             | 34.67                   | 43.50           | 8.83        | Peak     |
| 324.233                  | 19.61                 | 4.67            | 25.89                  | 31.91             | 30.31                   | 46.00           | 15.69       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35                  | 37.02             | 37.01                   | 46.00           | 8.99        | Peak     |
| 464.883                  | 22.63                 | 6.11            | 26.95                  | 32.45             | 34.24                   | 46.00           | 11.76       | Peak     |
| 556.225                  | 23.84                 | 6.61            | 27.31                  | 32.20             | 35.34                   | 46.00           | 10.66       | Peak     |

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|

## Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 34.850                   | 22.21                 | 1.30            | 26.51                  | 37.57             | 34.57                   | 40.00           | 5.43        | Peak     |
| 144.783                  | 16.88                 | 2.82            | 26.04                  | 35.70             | 29.36                   | 43.50           | 14.14       | Peak     |
| 252.292                  | 18.13                 | 3.89            | 25.72                  | 32.70             | 29.00                   | 46.00           | 17.00       | Peak     |
| 377.583                  | 21.03                 | 5.28            | 26.34                  | 35.93             | 35.89                   | 46.00           | 10.11       | Peak     |
| 441.442                  | 22.25                 | 5.90            | 26.80                  | 32.09             | 33.45                   | 46.00           | 12.55       | Peak     |
| 527.125                  | 23.48                 | 6.50            | 27.23                  | 32.84             | 35.59                   | 46.00           | 10.41       | Peak     |

## Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 35.658                   | 21.78                 | 1.31            | 0.00                   | 15.07             | 38.16                   | 40.00           | 1.84        | QP       |
| 146.400                  | 16.79                 | 2.83            | 26.04                  | 41.83             | 35.41                   | 43.50           | 8.09        | Peak     |
| 310.492                  | 19.23                 | 4.50            | 25.76                  | 31.20             | 29.16                   | 46.00           | 16.84       | Peak     |
| 377.583                  | 21.03                 | 5.28            | 26.34                  | 35.66             | 35.63                   | 46.00           | 10.37       | Peak     |
| 460.033                  | 22.55                 | 6.07            | 26.92                  | 32.78             | 34.48                   | 46.00           | 11.52       | Peak     |
| 527.933                  | 23.49                 | 6.51            | 27.23                  | 31.96             | 34.72                   | 46.00           | 11.28       | Peak     |

● **Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode | 802.11ax-HE20 | Frequency | TX 2442MHz |
|------|---------------|-----------|------------|
|------|---------------|-----------|------------|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 34.850                   | 22.21                 | 1.30            | 26.51            | 36.68             | 33.67                   | 40.00           | 6.33        | Peak     |
| 144.783                  | 16.88                 | 2.82            | 26.04            | 34.96             | 28.61                   | 43.50           | 14.89       | Peak     |
| 246.633                  | 17.92                 | 3.84            | 25.73            | 34.47             | 30.49                   | 46.00           | 15.51       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35            | 36.28             | 36.27                   | 46.00           | 9.73        | Peak     |
| 506.917                  | 23.22                 | 6.43            | 27.18            | 32.51             | 34.98                   | 46.00           | 11.02       | Peak     |
| 624.125                  | 24.43                 | 6.90            | 27.41            | 33.10             | 37.01                   | 46.00           | 8.99        | Peak     |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 34.042                   | 22.48                 | 1.28            | 0.00             | 14.23             | 37.99                   | 40.00           | 2.01        | QP       |
| 146.400                  | 16.79                 | 2.83            | 26.04            | 41.53             | 35.11                   | 43.50           | 8.39        | Peak     |
| 253.908                  | 18.15                 | 3.91            | 25.72            | 33.73             | 30.07                   | 46.00           | 15.93       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35            | 36.52             | 36.51                   | 46.00           | 9.49        | Peak     |
| 461.650                  | 22.58                 | 6.08            | 26.93            | 32.65             | 34.38                   | 46.00           | 11.62       | Peak     |
| 538.442                  | 23.62                 | 6.55            | 27.26            | 31.54             | 34.44                   | 46.00           | 11.56       | Peak     |

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 34.042                   | 22.48                 | 1.28            | 26.51            | 35.95             | 33.19                   | 40.00           | 6.81        | Peak     |
| 144.783                  | 16.88                 | 2.82            | 26.04            | 34.36             | 28.02                   | 43.50           | 15.48       | Peak     |
| 324.233                  | 19.61                 | 4.67            | 25.89            | 32.09             | 30.49                   | 46.00           | 15.51       | Peak     |
| 378.392                  | 21.05                 | 5.29            | 26.35            | 36.91             | 36.90                   | 46.00           | 9.10        | Peak     |
| 482.667                  | 22.89                 | 6.26            | 27.06            | 32.32             | 34.41                   | 46.00           | 11.59       | Peak     |
| 548.950                  | 23.76                 | 6.58            | 27.29            | 32.48             | 35.53                   | 46.00           | 10.47       | Peak     |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 34.042                   | 22.48                 | 1.28            | 0.00             | 14.66             | 38.42                   | 40.00           | 1.58        | QP       |
| 145.592                  | 16.83                 | 2.82            | 26.04            | 41.75             | 35.37                   | 43.50           | 8.13        | Peak     |
| 300.792                  | 18.94                 | 4.37            | 25.67            | 31.20             | 28.85                   | 46.00           | 17.15       | Peak     |
| 377.583                  | 21.03                 | 5.28            | 26.34            | 36.30             | 36.26                   | 46.00           | 9.74        | Peak     |
| 460.033                  | 22.55                 | 6.07            | 26.92            | 32.87             | 34.58                   | 46.00           | 11.42       | Peak     |
| 523.083                  | 23.43                 | 6.49            | 27.22            | 32.00             | 34.70                   | 46.00           | 11.30       | Peak     |

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New Taipei City244, Taiwan

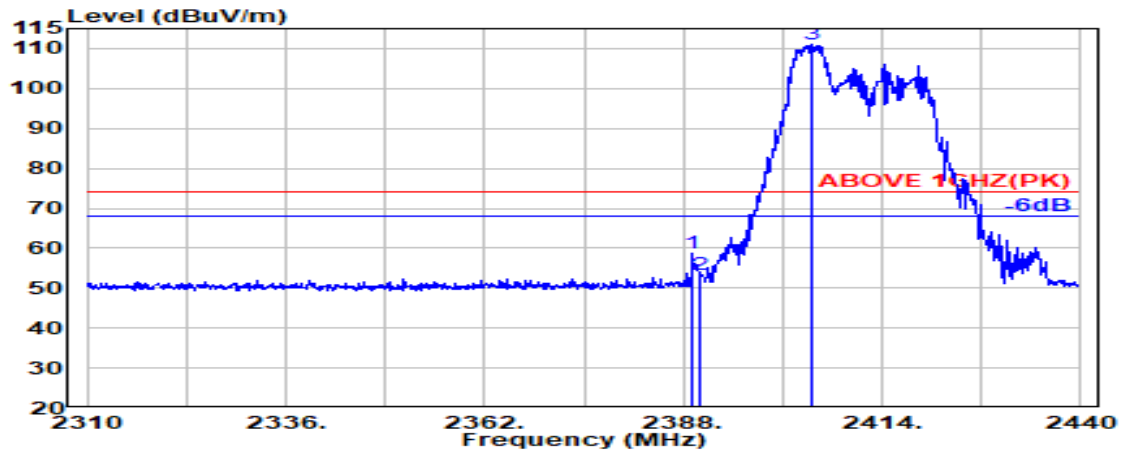
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Fax: +886 2 26099303

### A.2.1.3 Frequency Above 1 GHz to 10<sup>th</sup> harmonics

#### Band Edge:

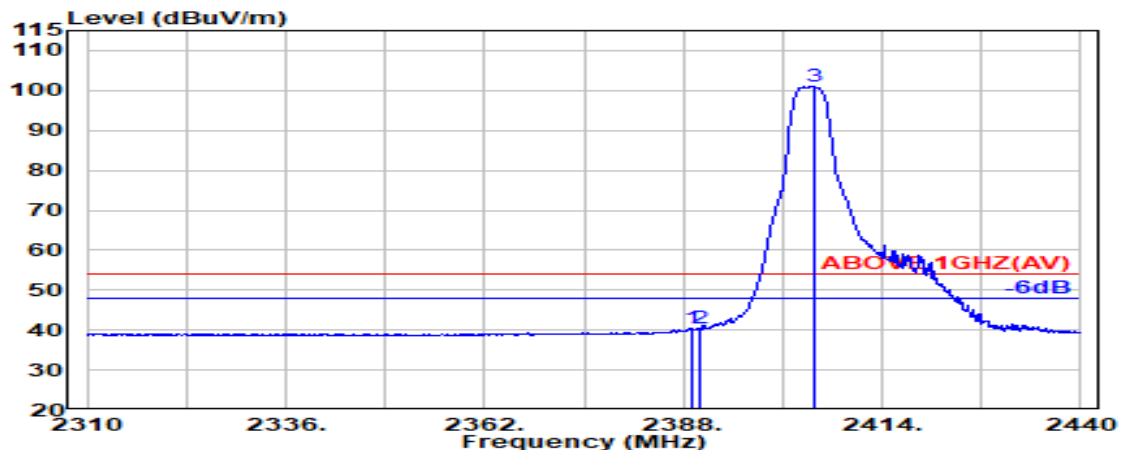
- Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna]

| Mode | 802.11ax-HE20 | Frequency        | TX 2412MHz |
|------|---------------|------------------|------------|
|      |               | RU Configuration | 52/37      |



#### Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.200                 | 28.20                 | 6.03            | 34.51                  | 58.83             | 58.56                   | 74.00           | 15.44       | Peak     |
| 2390.000                 | 28.20                 | 6.03            | 34.51                  | 53.77             | 53.50                   | 74.00           | 20.50       | Peak     |
| @ 2404.900               | 28.22                 | 6.06            | 34.51                  | 111.39            | 111.16                  | ---             | ---         | Peak     |

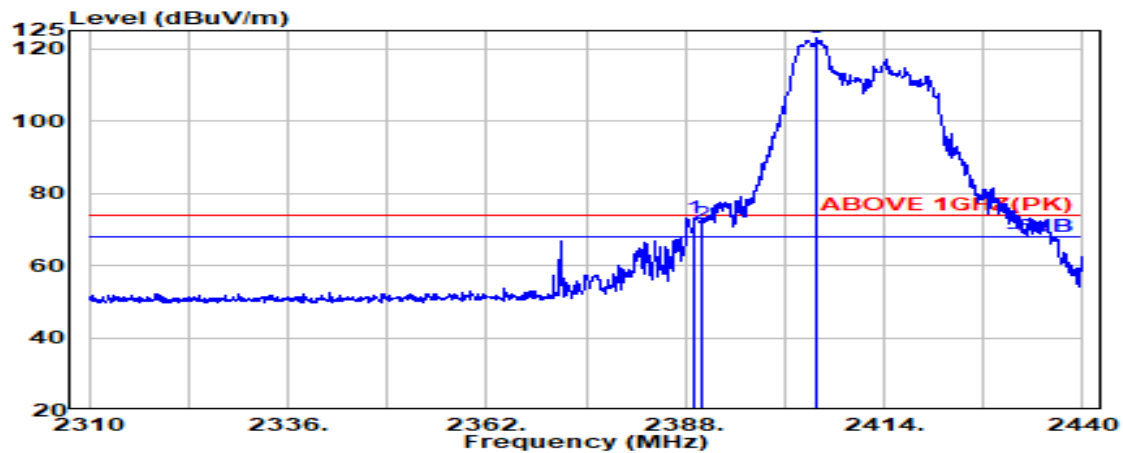


#### Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.100                 | 28.20                 | 6.03            | 34.51                  | 40.84             | 40.57                   | 54.00           | 13.43       | Average  |
| 2390.000                 | 28.20                 | 6.03            | 34.51                  | 40.66             | 40.39                   | 54.00           | 13.61       | Average  |
| @ 2405.000               | 28.22                 | 6.06            | 34.51                  | 101.27            | 101.04                  | ---             | ---         | Average  |

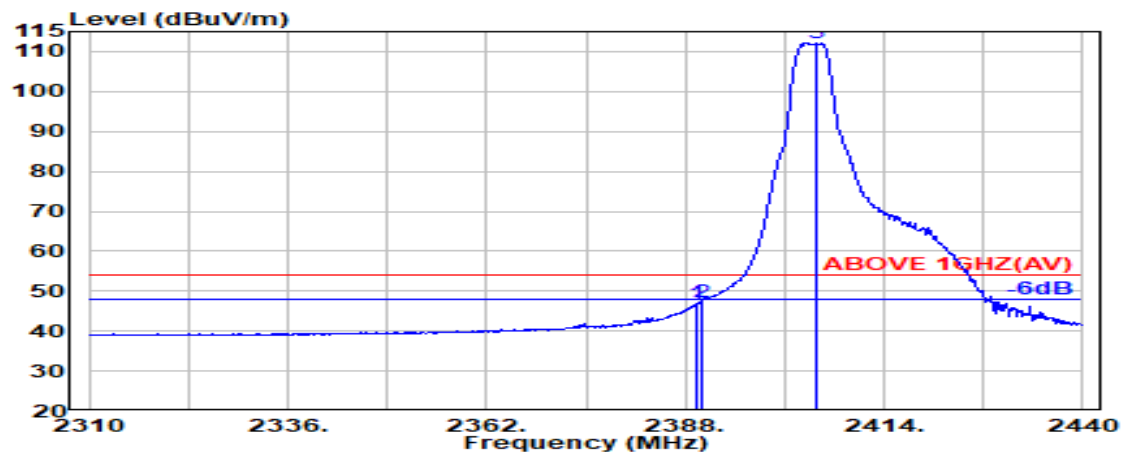
Remark: The “@” means fundamental frequency, it is ignored in this section.

| Mode | 802.11ax-HE20 | Frequency        | TX 2412MHz |
|------|---------------|------------------|------------|
|      |               | RU Configuration | 52/37      |



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.300                 | 28.20                 | 6.03            | 34.51                  | 73.23             | 72.96                   | 74.00           | 1.04        | Peak     |
| 2390.000                 | 28.20                 | 6.03            | 34.51                  | 71.75             | 71.48                   | 74.00           | 2.52        | Peak     |
| @ 2405.100               | 28.22                 | 6.06            | 34.51                  | 123.15            | 122.91                  | ---             | ---         | Peak     |



Antenna at Vertical Polarization

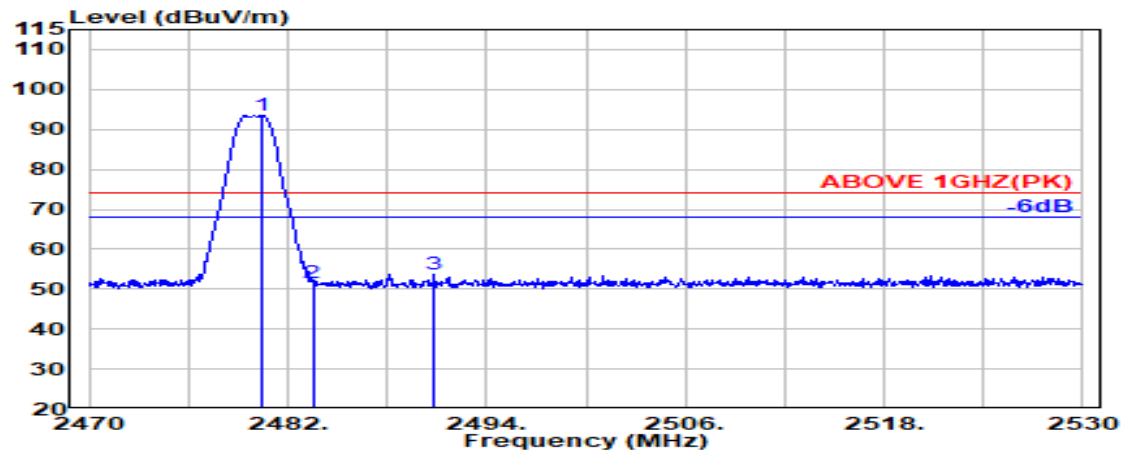
| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.600                 | 28.20                 | 6.03            | 34.51                  | 47.21             | 46.94                   | 54.00           | 7.06        | Average  |
| 2390.000                 | 28.20                 | 6.03            | 34.51                  | 47.58             | 47.30                   | 54.00           | 6.70        | Average  |
| @ 2405.200               | 28.22                 | 6.06            | 34.51                  | 112.48            | 112.25                  | ---             | ---         | Average  |

Remark: The “@” means fundamental frequency, it is ignored in this section.

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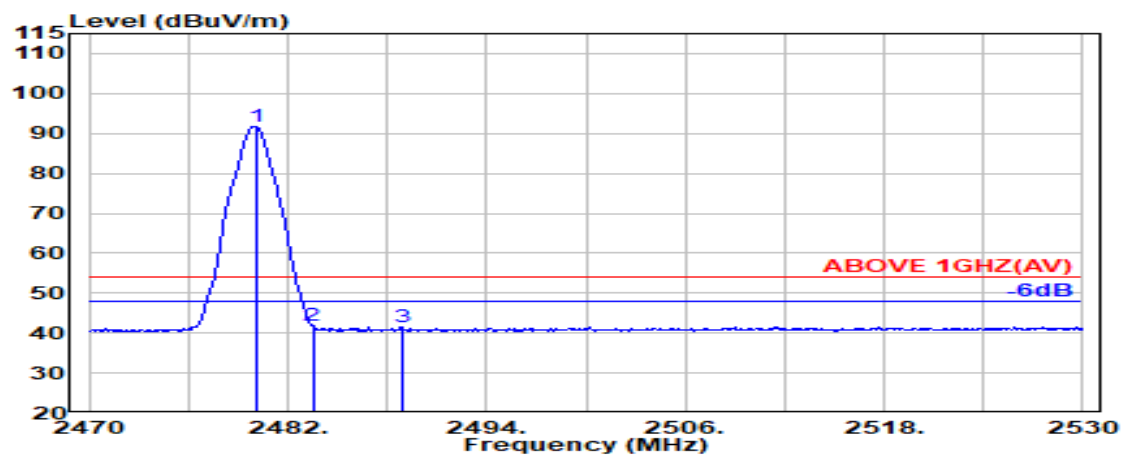
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**Fax:** +886 2 26099303

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|



Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.450               | 28.46                 | 6.16            | 34.53            | 93.30             | 93.40                   | ---             | ---         | Peak     |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 51.32             | 51.43                   | 74.00           | 22.57       | Peak     |
| 2490.800                 | 28.48                 | 6.18            | 34.53            | 53.49             | 53.62                   | 74.00           | 20.38       | Peak     |

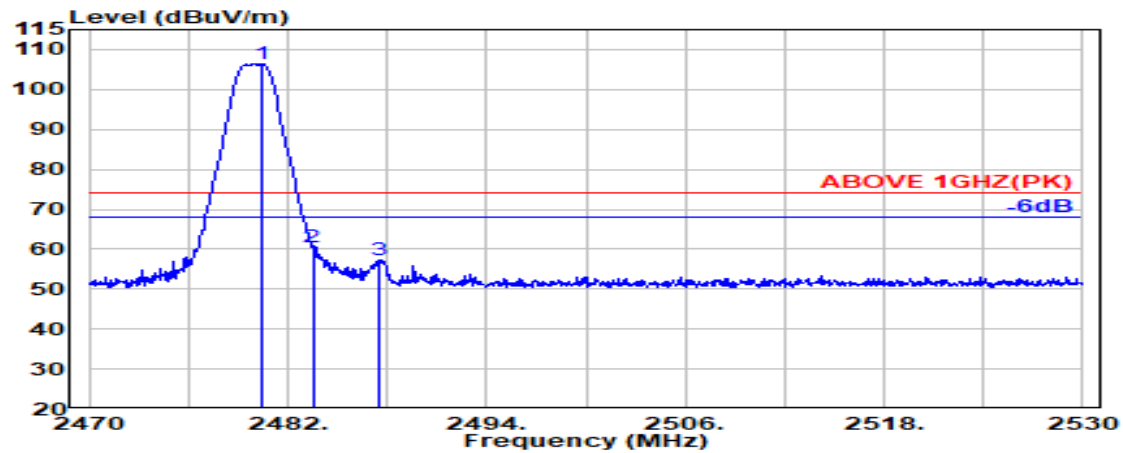


Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.050               | 28.46                 | 6.16            | 34.53            | 91.68             | 91.78                   | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 41.62             | 41.72                   | 54.00           | 12.28       | Average  |
| 2488.850                 | 28.48                 | 6.17            | 34.53            | 41.33             | 41.45                   | 54.00           | 12.55       | Average  |

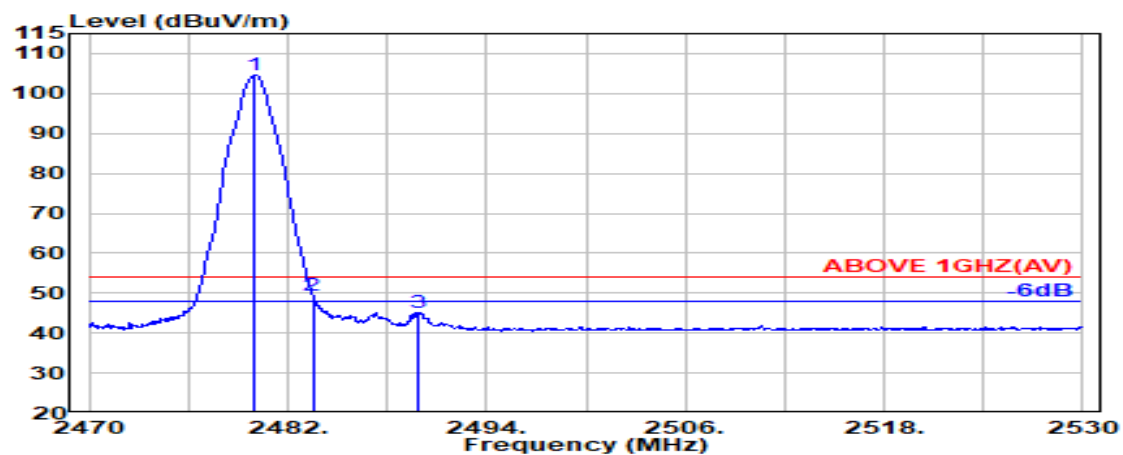
Remark: The “@” means fundamental frequency, it is ignored in this section.

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.450               | 28.46                 | 6.16            | 34.53                  | 106.23            | 106.33                  | ---             | ---         | Peak     |
| 2483.500                 | 28.47                 | 6.17            | 34.53                  | 60.49             | 60.60                   | 74.00           | 13.40       | Peak     |
| 2487.450                 | 28.48                 | 6.17            | 34.53                  | 57.25             | 57.37                   | 74.00           | 16.63       | Peak     |



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.000               | 28.46                 | 6.16            | 34.53                  | 104.60            | 104.69                  | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53                  | 49.15             | 49.26                   | 54.00           | 4.74        | Average  |
| 2489.800                 | 28.48                 | 6.18            | 34.53                  | 45.07             | 45.20                   | 54.00           | 8.80        | Average  |

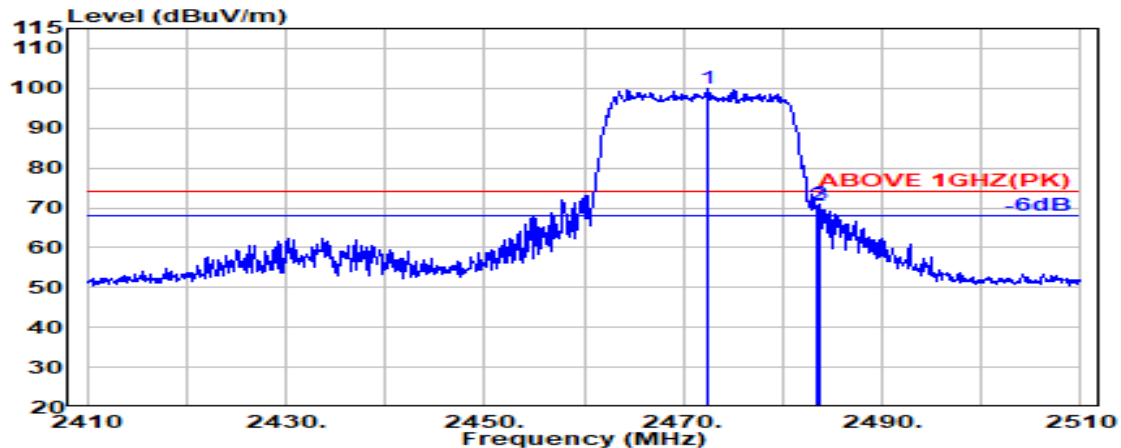
Remark: The “@” means fundamental frequency, it is ignored in this section.

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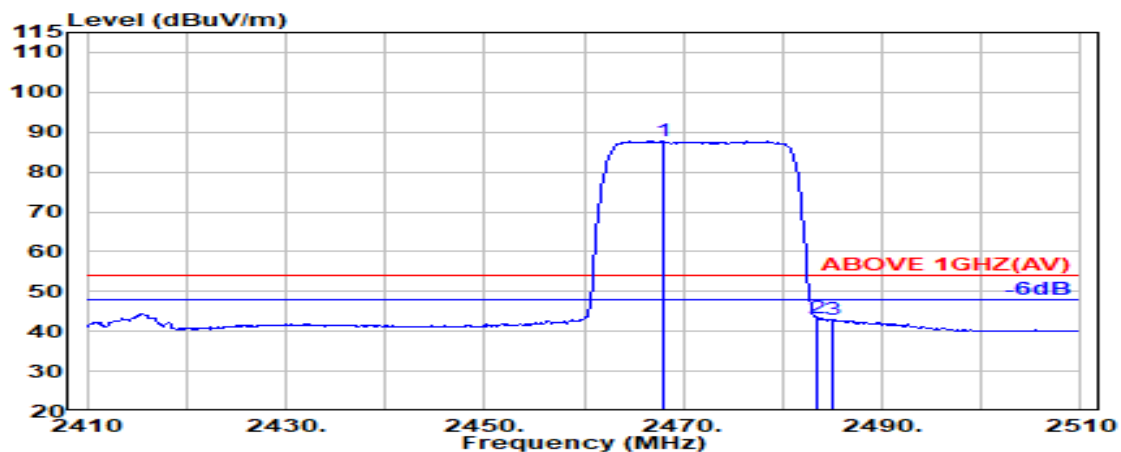
● Test SKU: SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]

| Mode | 802.11ax-HE40 | Frequency        | TX 2462MHz |
|------|---------------|------------------|------------|
|      |               | RU Configuration | 242/62     |



Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2472.400               | 28.45                 | 6.15            | 34.52                  | 99.96             | 100.04                  | ---             | ---         | Peak     |
| 2483.500                 | 28.47                 | 6.17            | 34.53                  | 70.57             | 70.68                   | 74.00           | 3.32        | Peak     |
| 2483.700                 | 28.47                 | 6.17            | 34.53                  | 70.92             | 71.03                   | 74.00           | 2.97        | Peak     |

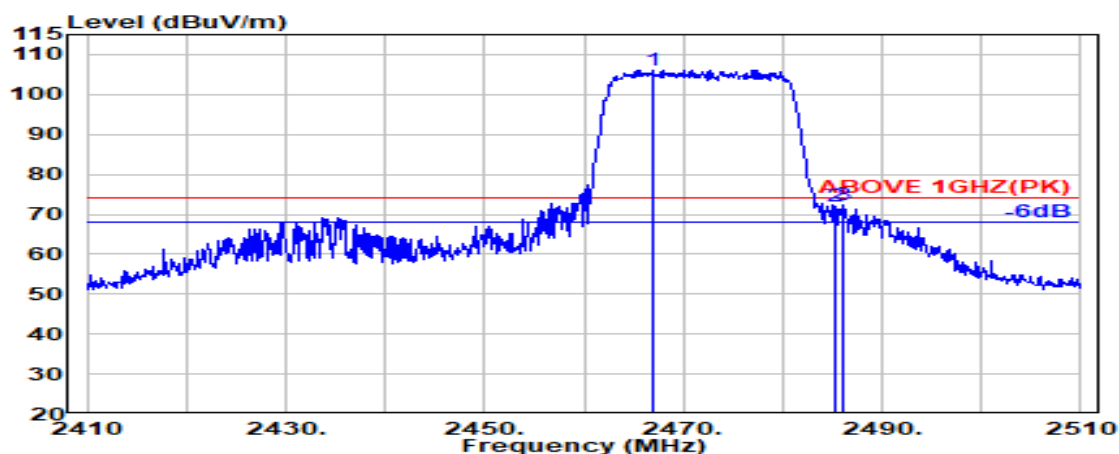


Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2467.900               | 28.44                 | 6.15            | 34.52                  | 87.73             | 87.79                   | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53                  | 43.11             | 43.22                   | 54.00           | 10.78       | Average  |
| 2485.000                 | 28.47                 | 6.17            | 34.53                  | 42.90             | 43.01                   | 54.00           | 10.99       | Average  |

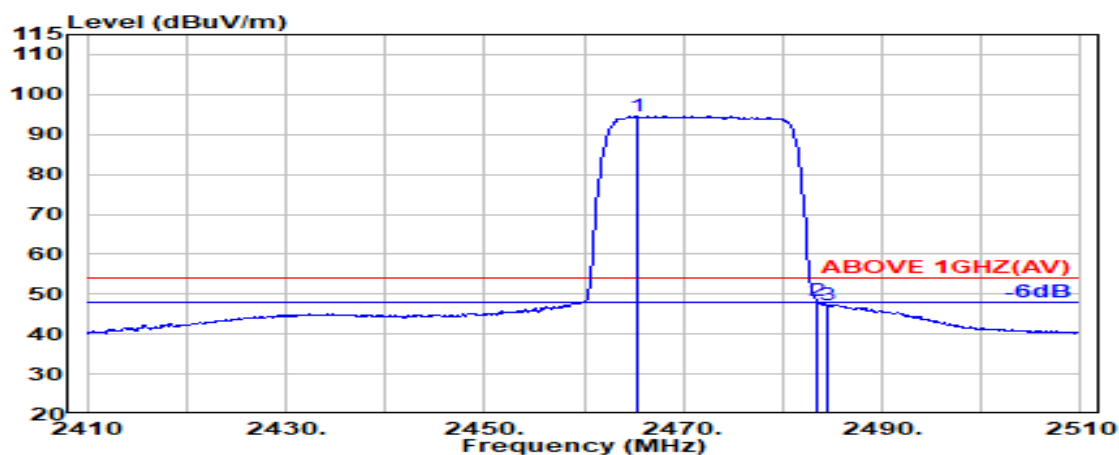
Remark: The “@” means fundamental frequency, it is ignored in this section.

| Mode | 802.11ax-HE40 | Frequency        | TX 2462MHz |
|------|---------------|------------------|------------|
|      |               | RU Configuration | 242/62     |



## Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2467.000               | 28.43                 | 6.14            | 34.52                  | 106.14            | 106.20                  | ---             | ---         | Peak     |
| 2485.300                 | 28.47                 | 6.17            | 34.53                  | 71.90             | 72.01                   | 74.00           | 1.99        | Peak     |
| 2486.000                 | 28.47                 | 6.17            | 34.53                  | 72.18             | 72.29                   | 74.00           | 1.71        | Peak     |

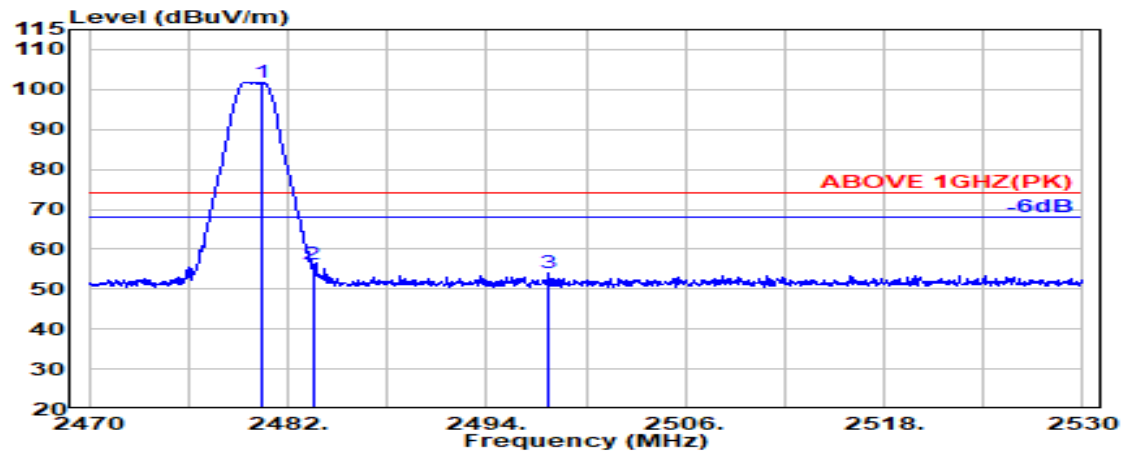


## Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2465.300               | 28.43                 | 6.14            | 34.52                  | 94.53             | 94.58                   | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53                  | 48.31             | 48.42                   | 54.00           | 5.58        | Average  |
| 2484.400                 | 28.47                 | 6.17            | 34.53                  | 47.28             | 47.39                   | 54.00           | 6.61        | Average  |

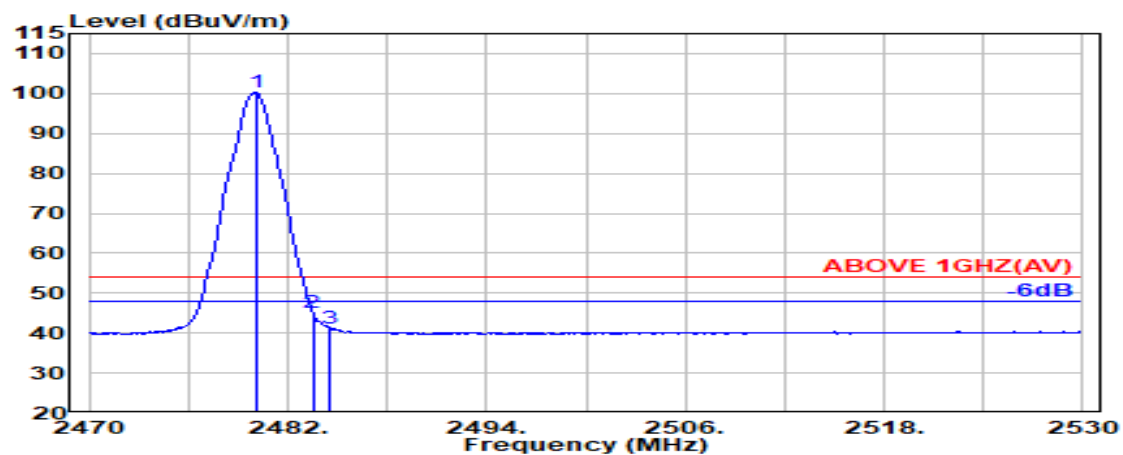
Remark: The “@” means fundamental frequency, it is ignored in this section.

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|



Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.500               | 28.46                 | 6.16            | 34.53            | 101.78            | 101.87                  | ---             | ---         | Peak     |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 56.14             | 56.25                   | 74.00           | 17.75       | Peak     |
| 2497.700                 | 28.50                 | 6.19            | 34.53            | 53.79             | 53.95                   | 74.00           | 20.05       | Peak     |

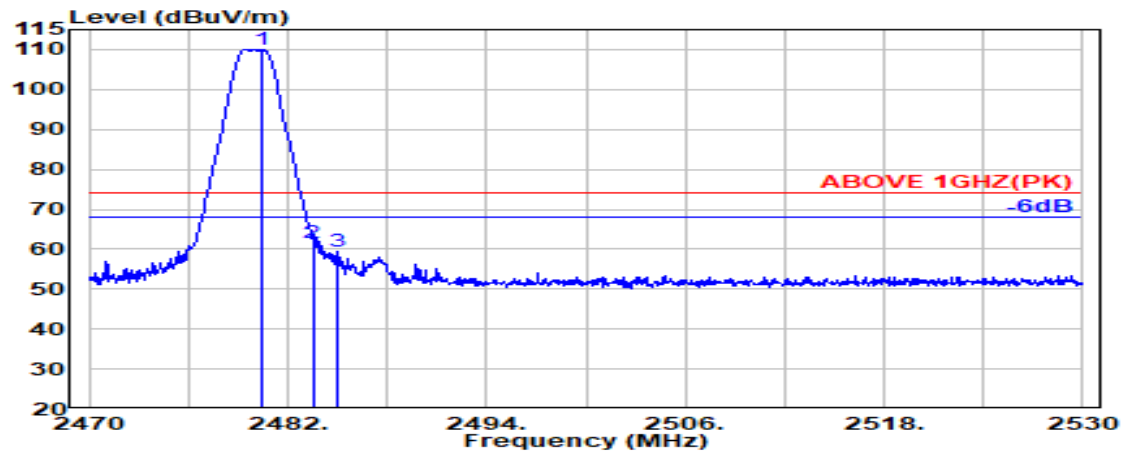


Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.050               | 28.46                 | 6.16            | 34.53            | 100.12            | 100.22                  | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 44.89             | 45.00                   | 54.00           | 9.00        | Average  |
| 2484.500                 | 28.47                 | 6.17            | 34.53            | 41.21             | 41.32                   | 54.00           | 12.68       | Average  |

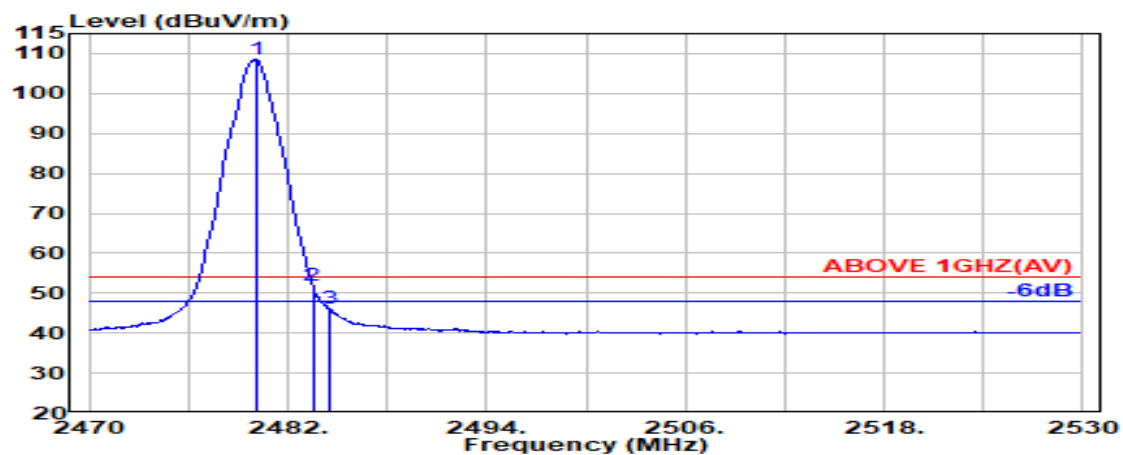
Remark: The “@” means fundamental frequency, it is ignored in this section.

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.450               | 28.46                 | 6.16            | 34.53            | 110.03            | 110.12                  | ---             | ---         | Peak     |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 61.52             | 61.62                   | 74.00           | 12.38       | Peak     |
| 2485.050                 | 28.47                 | 6.17            | 34.53            | 59.32             | 59.44                   | 74.00           | 14.56       | Peak     |



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.100               | 28.46                 | 6.16            | 34.53            | 108.36            | 108.45                  | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 51.75             | 51.85                   | 54.00           | 2.15        | Average  |
| 2484.500                 | 28.47                 | 6.17            | 34.53            | 45.91             | 46.02                   | 54.00           | 7.98        | Average  |

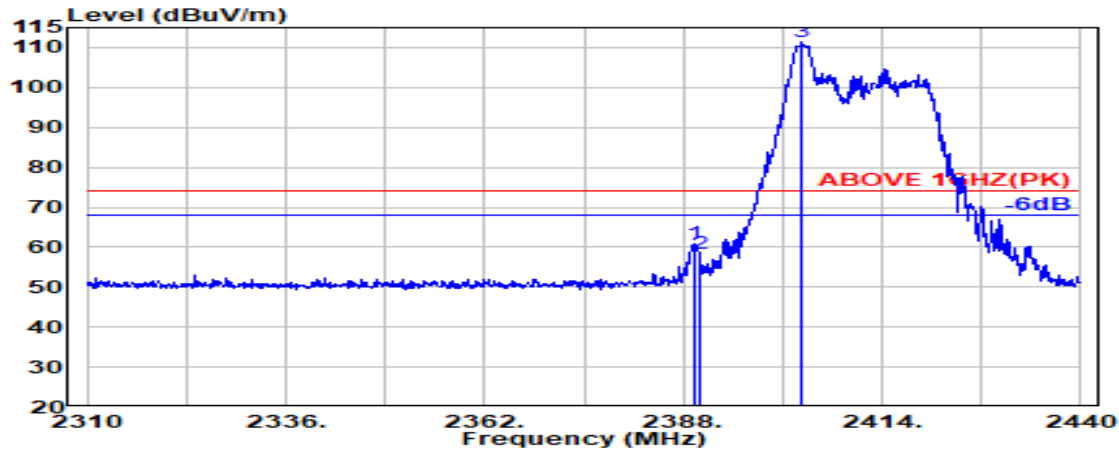
Remark: The “@” means fundamental frequency, it is ignored in this section.

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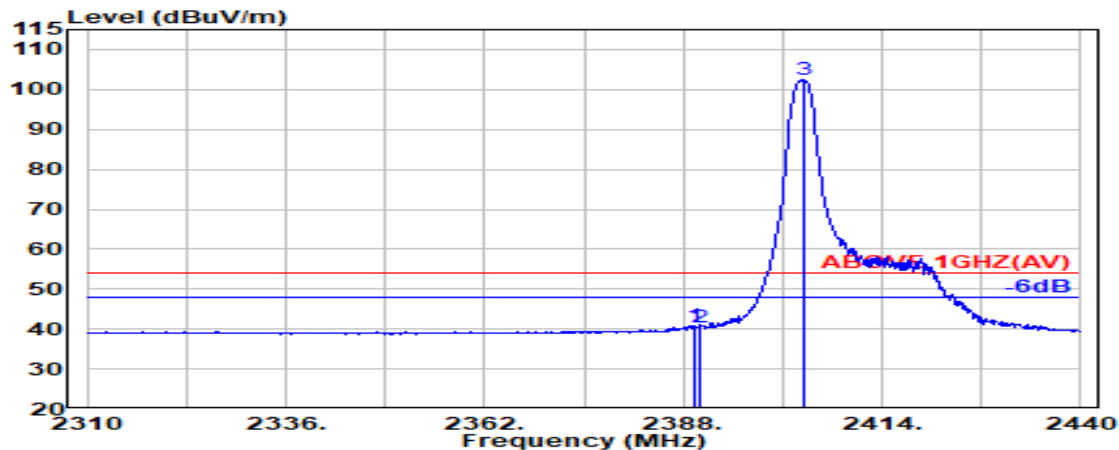
● Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]

|      |               |                  |            |
|------|---------------|------------------|------------|
| Mode | 802.11ax-HE20 | Frequency        | TX 2412MHz |
|      |               | RU Configuration | 26/0       |



Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.400                 | 28.30                 | 6.03            | 34.51                  | 60.97             | 60.80                   | 74.00           | 13.20       | Peak     |
| 2390.000                 | 28.30                 | 6.03            | 34.51                  | 58.64             | 58.46                   | 74.00           | 15.54       | Peak     |
| @ 2403.500               | 28.31                 | 6.05            | 34.51                  | 111.52            | 111.37                  | ---             | ---         | Peak     |

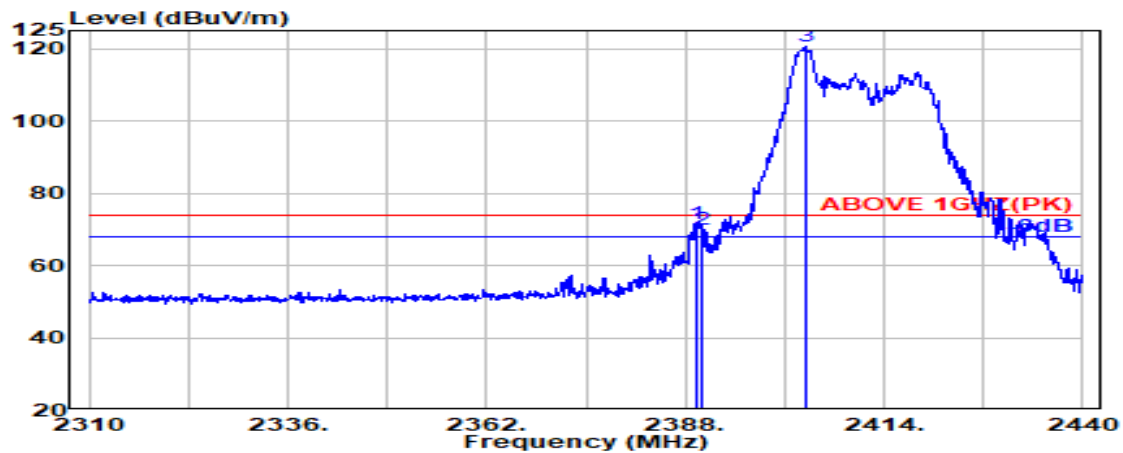


Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.400                 | 28.30                 | 6.03            | 34.51                  | 41.10             | 40.92                   | 54.00           | 13.08       | Average  |
| 2390.000                 | 28.30                 | 6.03            | 34.51                  | 40.46             | 40.29                   | 54.00           | 13.71       | Average  |
| @ 2403.900               | 28.31                 | 6.05            | 34.51                  | 102.47            | 102.32                  | ---             | ---         | Average  |

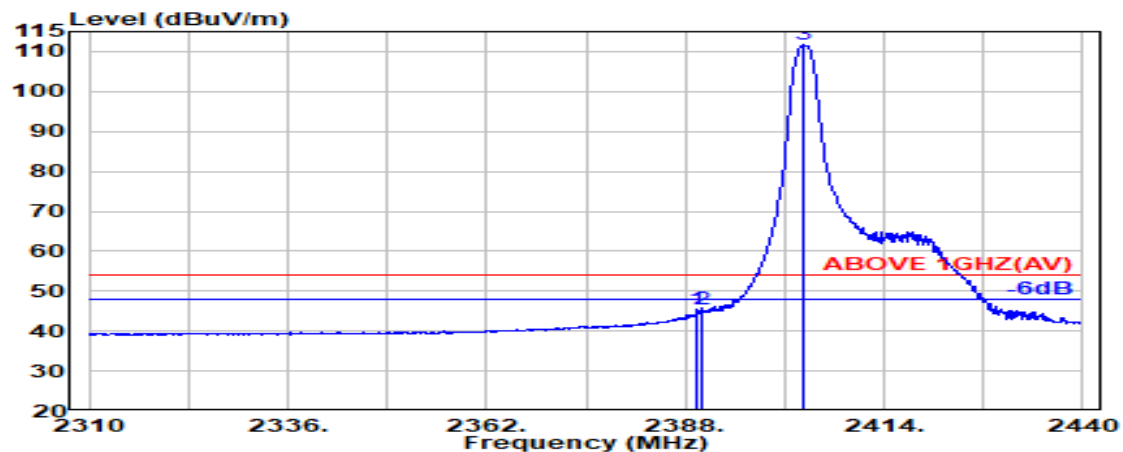
Remark: The “@” means fundamental frequency, it is ignored in this section.

| Mode | 802.11ax-HE20 | Frequency        | TX 2412MHz |
|------|---------------|------------------|------------|
|      |               | RU Configuration | 26/0       |



#### Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.400                 | 28.30                 | 6.03            | 34.51                  | 71.57             | 71.39                   | 74.00           | 2.61        | Peak     |
| 2390.000                 | 28.30                 | 6.03            | 34.51                  | 70.23             | 70.06                   | 74.00           | 3.94        | Peak     |
| @ 2403.700               | 28.31                 | 6.05            | 34.51                  | 120.67            | 120.52                  | ---             | ---         | Peak     |

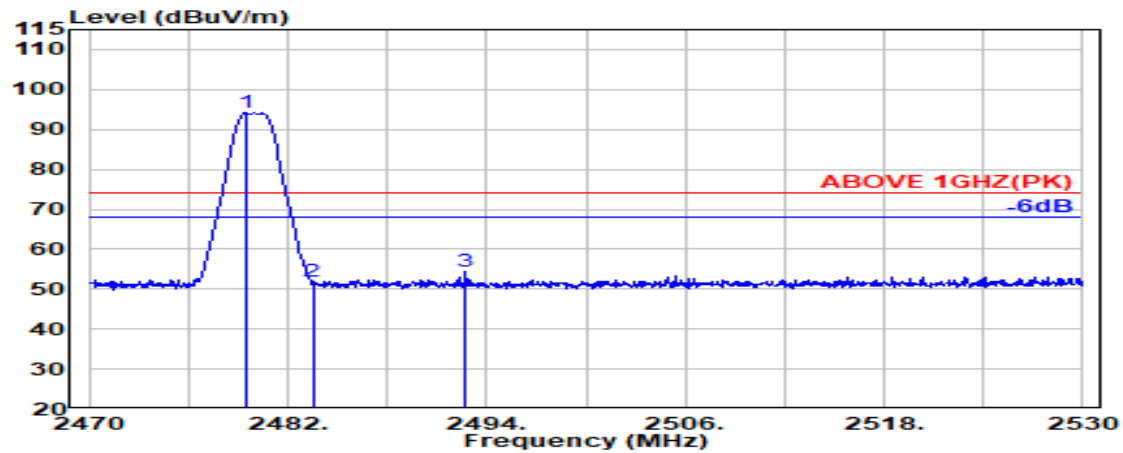


#### Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 2389.500                 | 28.30                 | 6.03            | 34.51                  | 45.57             | 45.40                   | 54.00           | 8.60        | Average  |
| 2390.000                 | 28.30                 | 6.03            | 34.51                  | 45.69             | 45.52                   | 54.00           | 8.48        | Average  |
| @ 2403.600               | 28.31                 | 6.05            | 34.51                  | 111.77            | 111.62                  | ---             | ---         | Average  |

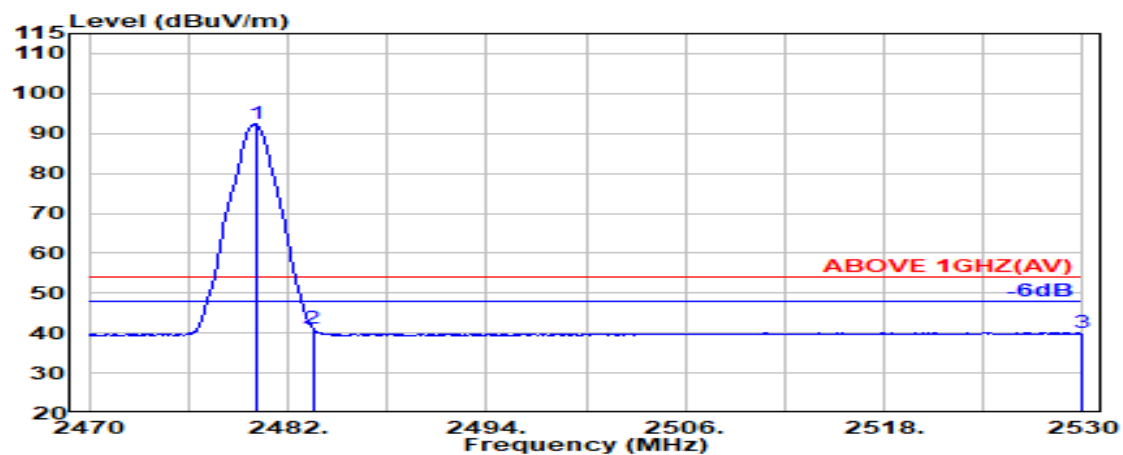
Remark: The “@” means fundamental frequency, it is ignored in this section.

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|



Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2479.450               | 28.46                 | 6.16            | 34.53                  | 93.96             | 94.06                   | ---             | ---         | Peak     |
| 2483.500                 | 28.47                 | 6.17            | 34.53                  | 51.94             | 52.05                   | 74.00           | 21.95       | Peak     |
| 2492.700                 | 28.49                 | 6.18            | 34.53                  | 54.27             | 54.41                   | 74.00           | 19.59       | Peak     |



Antenna at Horizontal Polarization

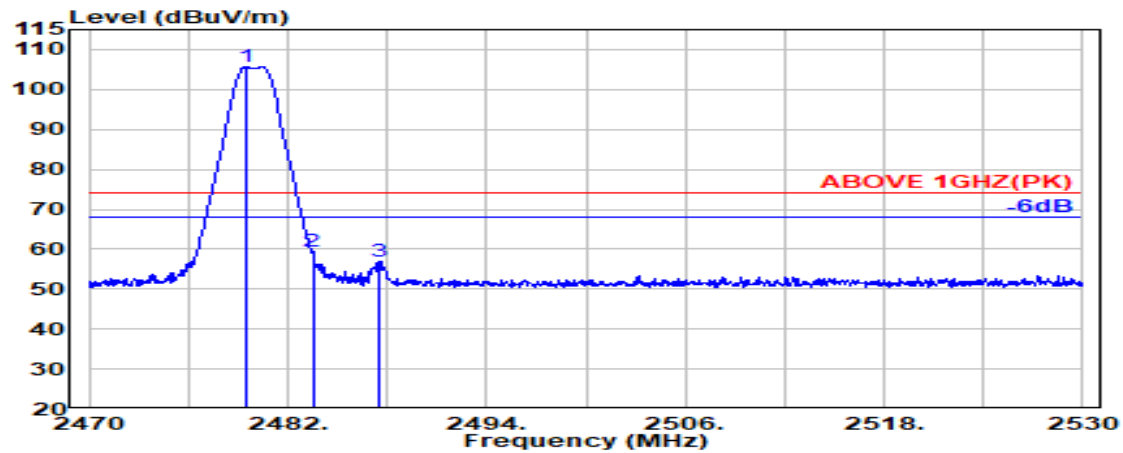
| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2480.050               | 28.46                 | 6.16            | 34.53                  | 92.31             | 92.40                   | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53                  | 41.10             | 41.21                   | 54.00           | 12.79       | Average  |
| 2530.000                 | 28.50                 | 6.23            | 34.54                  | 39.92             | 40.10                   | 54.00           | 13.90       | Average  |

Remark: The “@” means fundamental frequency, it is ignored in this section.

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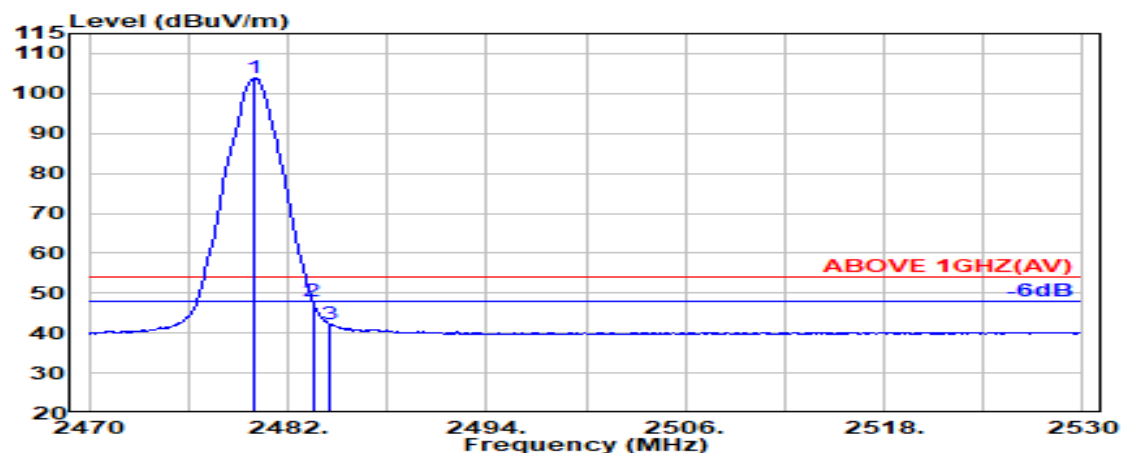
**Tel: +886 2 26099301**  
**Fax: +886 2 26099303**

| Mode | BLE (2Mbps) | Frequency | TX 2480MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2479.450               | 28.46                 | 6.16            | 34.53            | 105.57            | 105.67                  | ---             | ---         | Peak     |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 59.40             | 59.51                   | 74.00           | 14.49       | Peak     |
| 2487.450                 | 28.48                 | 6.17            | 34.53            | 56.84             | 56.96                   | 74.00           | 17.04       | Peak     |



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------|-------------------|-------------------------|-----------------|-------------|----------|
| @ 2479.950               | 28.46                 | 6.16            | 34.53            | 103.83            | 103.92                  | ---             | ---         | Average  |
| 2483.500                 | 28.47                 | 6.17            | 34.53            | 47.80             | 47.91                   | 54.00           | 6.09        | Average  |
| 2484.500                 | 28.47                 | 6.17            | 34.53            | 42.10             | 42.21                   | 54.00           | 11.79       | Average  |

Remark: The “@” means fundamental frequency, it is ignored in this section.

## A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

### ● Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna]

| Mode | 802.11g | Frequency | TX 2442MHz |
|------|---------|-----------|------------|
|------|---------|-----------|------------|

#### Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4884.000                 | 33.44                 | 8.38            | 34.42                  | 36.32             | 43.71                   | 54.00           | 10.29       | Peak     |

#### Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4884.000                 | 33.44                 | 8.38            | 34.42                  | 37.01             | 44.41                   | 54.00           | 9.59        | Peak     |

| Mode | BLE (2Mbps) | Frequency | TX 2440MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|

#### Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4880.000                 | 33.42                 | 8.37            | 34.42                  | 36.43             | 43.80                   | 54.00           | 10.20       | Peak     |

#### Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4880.000                 | 33.42                 | 8.37            | 34.42                  | 36.70             | 44.08                   | 54.00           | 9.92        | Peak     |

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● **Test SKU: SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode | 802.11b | Frequency | TX 2442MHz |
|------|---------|-----------|------------|
|------|---------|-----------|------------|

Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4884.000                 | 33.17                 | 8.38            | 34.42                  | 37.12             | 44.25                   | 54.00           | 9.75        | Peak     |

Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4884.000                 | 33.17                 | 8.38            | 34.42                  | 36.71             | 43.83                   | 54.00           | 10.17       | Peak     |

| Mode | BLE (2Mbps) | Frequency | TX 2402MHz |
|------|-------------|-----------|------------|
|------|-------------|-----------|------------|

Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4804.000                 | 32.92                 | 8.32            | 34.43                  | 39.12             | 45.92                   | 54.00           | 8.08        | Peak     |

Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4804.000                 | 32.92                 | 8.32            | 34.43                  | 36.36             | 43.17                   | 54.00           | 10.83       | Peak     |

● **Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode | 802.11n-HT20 |  |  |  | Frequency | TX 2442MHz |  |  |
|------|--------------|--|--|--|-----------|------------|--|--|
|------|--------------|--|--|--|-----------|------------|--|--|

Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4884.000                 | 33.17                 | 8.38            | 34.42                  | 37.23             | 44.36                   | 54.00           | 9.64        | Peak     |

Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4884.000                 | 33.17                 | 8.38            | 34.42                  | 36.21             | 43.34                   | 54.00           | 10.66       | Peak     |

| Mode | BLE (2Mbps) |  |  |  | Frequency | TX 2480MHz |  |  |
|------|-------------|--|--|--|-----------|------------|--|--|
|------|-------------|--|--|--|-----------|------------|--|--|

Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4960.000                 | 33.24                 | 8.42            | 34.41                  | 37.03             | 44.29                   | 54.00           | 9.71        | Peak     |

Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|-------------------|-------------------------|-----------------|-------------|----------|
| 4960.000                 | 33.24                 | 8.42            | 34.41                  | 37.48             | 44.74                   | 54.00           | 9.26        | Peak     |

A.2.3 Emissions in Non-restricted Frequency Bands:

Pursuant to ANSI C63.10:2013 that emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

## A.3 MAXIMUM PEAK OUTPUT POWER

|              |                                |            |          |
|--------------|--------------------------------|------------|----------|
| Test Date    | 2023/10/05                     | Temp./Hum. | 23°C/53% |
| Cable Loss   | 1.00dB                         | Tested By  | Hua Wu   |
| Test Voltage | AC 120V, 60Hz (via AC Adapter) |            |          |

### A.3.1 Peak Output Power

● **SPOT CHECK Power:**

**Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna] &**

**SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode    | Centre Frequency (MHz) | Peak Output Power (dBm) |       | Max. Peak Output Power (dBm) |
|---------|------------------------|-------------------------|-------|------------------------------|
|         |                        | Aux                     | Main  |                              |
| 802.11b | 2412                   | 23.20                   | 23.02 | 23.20                        |
|         | 2442                   | 23.09                   | 23.19 | 23.19                        |
|         | 2462                   | 23.12                   | 22.92 | 23.12                        |
|         | 2467                   | 22.48                   | 21.94 | 22.48                        |
|         | 2472                   | 20.44                   | 19.29 | 20.44                        |
| 802.11g | 2412                   | 21.21                   | 20.95 | 21.21                        |
|         | 2417                   | 22.81                   | 23.10 | 23.10                        |
|         | 2442                   | 23.86                   | 23.60 | 23.86                        |
|         | 2457                   | 23.00                   | 22.54 | 23.00                        |
|         | 2462                   | 21.11                   | 21.04 | 21.11                        |
|         | 2467                   | 19.06                   | 18.79 | 19.06                        |
|         | 2472                   | 16.83                   | 16.57 | 16.83                        |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

**Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna] &  
SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode          | Centre Frequency (MHz) | Peak Output Power (dBm) |       | Total Peak Output Power (dBm) |
|---------------|------------------------|-------------------------|-------|-------------------------------|
|               |                        | Aux                     | Main  |                               |
| 802.11n-HT20  | 2412                   | 18.64                   | 19.35 | 22.02                         |
|               | 2417                   | 21.10                   | 21.34 | 24.23                         |
|               | 2422                   | 22.32                   | 22.53 | 25.44                         |
|               | 2442                   | 23.23                   | 23.48 | 26.37                         |
|               | 2457                   | 22.13                   | 22.35 | 25.25                         |
|               | 2462                   | 19.00                   | 19.36 | 22.19                         |
|               | 2467                   | 15.24                   | 15.50 | 18.38                         |
|               | 2472                   | 11.17                   | 11.01 | 14.10                         |
| 802.11n-HT40  | 2422                   | 19.85                   | 20.19 | 23.03                         |
|               | 2442                   | 20.51                   | 21.29 | 23.93                         |
|               | 2452                   | 20.10                   | 20.40 | 23.26                         |
|               | 2457                   | 14.98                   | 15.59 | 18.31                         |
|               | 2462                   | 11.88                   | 11.96 | 14.93                         |
| 802.11ax-HE20 | 2412                   | 19.11                   | 19.20 | 22.17                         |
|               | 2417                   | 21.29                   | 21.49 | 24.40                         |
|               | 2422                   | 22.77                   | 22.38 | 25.59                         |
|               | 2442                   | 23.60                   | 23.80 | 26.71                         |
|               | 2457                   | 22.40                   | 22.43 | 25.43                         |
|               | 2462                   | 19.53                   | 19.46 | 22.51                         |
|               | 2467                   | 15.48                   | 15.51 | 18.51                         |
|               | 2472                   | 11.24                   | 11.13 | 14.20                         |
| 802.11ax-HE40 | 2422                   | 19.76                   | 19.80 | 22.79                         |
|               | 2442                   | 20.74                   | 21.10 | 23.93                         |
|               | 2452                   | 19.48                   | 19.96 | 22.74                         |
|               | 2457                   | 14.82                   | 15.16 | 18.00                         |
|               | 2462                   | 12.20                   | 11.95 | 15.09                         |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

| Mode          | Centre Frequency (MHz) | RU Configuration | Peak Output Power (dBm) |       | Total Peak Output Power (dBm) |
|---------------|------------------------|------------------|-------------------------|-------|-------------------------------|
|               |                        |                  | Aux                     | Main  |                               |
| 802.11ax-HE20 | 2412                   | 26/0             | 22.13                   | 22.22 | 25.19                         |
|               |                        | 52/37            | 22.27                   | 22.37 | 25.33                         |
|               |                        | 106/53           | 22.08                   | 22.06 | 25.08                         |
|               | 2472                   | 26/8             | 18.54                   | 18.70 | 21.63                         |
|               |                        | 52/40            | 18.99                   | 18.66 | 21.84                         |
|               |                        | 106/54           | 18.95                   | 18.67 | 21.82                         |
| 802.11ax-HE40 | 2422                   | 242/61           | 19.40                   | 19.48 | 22.45                         |
|               | 2462                   | 242/62           | 17.49                   | 17.69 | 20.60                         |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

**Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna] &  
SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode                  | Centre Frequency (MHz) | Max. Peak Output Power (dBm) |
|-----------------------|------------------------|------------------------------|
| BLE<br>(1M)           | 2402                   | 5.31                         |
|                       | 2440                   | 5.77                         |
|                       | 2480                   | 6.13                         |
| BLE<br>(2M)           | 2402                   | 5.39                         |
|                       | 2440                   | 5.96                         |
|                       | 2480                   | 6.15                         |
| BLE<br>(PHY Coded S2) | 2402                   | 5.36                         |
|                       | 2440                   | 5.86                         |
|                       | 2480                   | 6.00                         |
| BLE<br>(PHY Coded S8) | 2402                   | 5.41                         |
|                       | 2440                   | 5.83                         |
|                       | 2480                   | 6.11                         |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical thus other conducted items is exempt.

**Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode    | Centre Frequency (MHz) | Peak Output Power (dBm) |       | Max. Peak Output Power (dBm) |
|---------|------------------------|-------------------------|-------|------------------------------|
|         |                        | Aux                     | Main  |                              |
| 802.11b | 2412                   | 22.08                   | 21.99 | 22.08                        |
|         | 2442                   | 22.12                   | 21.98 | 22.12                        |
|         | 2462                   | 21.84                   | 21.78 | 21.84                        |
|         | 2467                   | 20.37                   | 19.16 | 20.37                        |
|         | 2472                   | 21.12                   | 20.97 | 21.12                        |
| 802.11g | 2412                   | 21.23                   | 21.13 | 21.23                        |
|         | 2417                   | 22.34                   | 22.64 | 22.64                        |
|         | 2442                   | 22.68                   | 22.37 | 22.68                        |
|         | 2457                   | 22.26                   | 22.21 | 22.26                        |
|         | 2462                   | 20.97                   | 21.05 | 21.05                        |
|         | 2467                   | 18.92                   | 18.63 | 18.92                        |
|         | 2472                   | 16.65                   | 16.44 | 16.65                        |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

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**Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode          | Centre Frequency (MHz) | Peak Output Power (dBm) |       | Total Peak Output Power (dBm) |
|---------------|------------------------|-------------------------|-------|-------------------------------|
|               |                        | Aux                     | Main  |                               |
| 802.11n-HT20  | 2412                   | 18.55                   | 19.16 | 21.88                         |
|               | 2417                   | 20.86                   | 21.21 | 24.05                         |
|               | 2422                   | 22.27                   | 22.47 | 25.38                         |
|               | 2442                   | 22.29                   | 22.17 | 25.24                         |
|               | 2457                   | 22.27                   | 22.32 | 25.31                         |
|               | 2462                   | 18.99                   | 19.21 | 22.11                         |
|               | 2467                   | 15.08                   | 15.36 | 18.23                         |
|               | 2472                   | 10.93                   | 10.84 | 13.90                         |
| 802.11n-HT40  | 2422                   | 19.68                   | 20.12 | 22.92                         |
|               | 2442                   | 20.30                   | 21.18 | 23.77                         |
|               | 2452                   | 19.84                   | 20.22 | 23.04                         |
|               | 2457                   | 14.99                   | 15.42 | 18.22                         |
|               | 2462                   | 11.74                   | 11.82 | 14.79                         |
| 802.11ax-HE20 | 2412                   | 19.00                   | 19.14 | 22.08                         |
|               | 2417                   | 21.06                   | 21.40 | 24.24                         |
|               | 2422                   | 22.49                   | 22.60 | 25.56                         |
|               | 2442                   | 22.38                   | 22.43 | 25.42                         |
|               | 2457                   | 22.36                   | 22.37 | 25.38                         |
|               | 2462                   | 19.33                   | 19.32 | 22.34                         |
|               | 2467                   | 15.45                   | 15.33 | 18.40                         |
|               | 2472                   | 11.15                   | 11.20 | 14.19                         |
| 802.11ax-HE40 | 2422                   | 19.72                   | 19.63 | 22.69                         |
|               | 2442                   | 20.58                   | 20.89 | 23.75                         |
|               | 2452                   | 19.25                   | 19.79 | 22.54                         |
|               | 2457                   | 14.74                   | 15.00 | 17.88                         |
|               | 2462                   | 11.95                   | 11.89 | 14.93                         |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

| Mode          | Centre Frequency (MHz) | RU Configuration | Peak Output Power (dBm) |       | Total Peak Output Power (dBm) |
|---------------|------------------------|------------------|-------------------------|-------|-------------------------------|
|               |                        |                  | Aux                     | Main  |                               |
| 802.11ax-HE20 | 2412                   | 26/0             | 22.04                   | 22.27 | 25.17                         |
|               |                        | 52/37            | 22.34                   | 22.28 | 25.32                         |
|               |                        | 106/53           | 22.06                   | 22.01 | 25.05                         |
|               | 2472                   | 26/8             | 18.36                   | 18.47 | 21.43                         |
|               |                        | 52/40            | 18.71                   | 18.66 | 21.70                         |
|               |                        | 106/54           | 18.63                   | 18.57 | 21.61                         |
| 802.11ax-HE40 | 2422                   | 242/61           | 19.35                   | 19.28 | 22.33                         |
|               | 2462                   | 242/62           | 17.32                   | 17.57 | 20.46                         |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

**Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode                  | Centre Frequency (MHz) | Max. Peak Output Power (dBm) |
|-----------------------|------------------------|------------------------------|
| BLE<br>(1M)           | 2402                   | 5.23                         |
|                       | 2440                   | 5.69                         |
|                       | 2480                   | 6.02                         |
| BLE<br>(2M)           | 2402                   | 5.38                         |
|                       | 2440                   | 5.85                         |
|                       | 2480                   | 6.13                         |
| BLE<br>(PHY Coded S2) | 2402                   | 5.29                         |
|                       | 2440                   | 5.77                         |
|                       | 2480                   | 5.99                         |
| BLE<br>(PHY Coded S8) | 2402                   | 5.36                         |
|                       | 2440                   | 5.76                         |
|                       | 2480                   | 6.12                         |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical thus other conducted items is exempt.

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● **Original Peak Output Power (FCC ID: BEJNT-17Z90R & IC: 2703H-17Z90R)**

**Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna]**

| Mode    | Centre Frequency (MHz) | Peak Output Power (dBm) |        | Max Peak Output Power (dBm) | Antenna Gain (dBi) |      | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|---------|------------------------|-------------------------|--------|-----------------------------|--------------------|------|---------------------------------|--------------------------------------------------------------|
|         |                        | Aux                     | Main   |                             | Aux                | Main |                                 |                                                              |
| 802.11b | 2412                   | 23.390                  | 23.170 | 23.390                      | 1.10               | 2.20 | 25.370                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|         | 2442                   | 23.360                  | 23.290 | 23.360                      | 1.60               | 3.00 | 26.290                          |                                                              |
|         | 2462                   | 23.220                  | 23.160 | 23.220                      | 1.60               | 3.00 | 26.160                          |                                                              |
|         | 2467                   | 22.670                  | 22.210 | 22.670                      | 1.60               | 3.00 | 25.210                          |                                                              |
|         | 2472                   | 20.650                  | 19.560 | 20.650                      | 1.60               | 3.00 | 22.560                          |                                                              |
| 802.11g | 2412                   | 21.490                  | 21.240 | 21.490                      | 1.10               | 2.20 | 23.440                          |                                                              |
|         | 2417                   | 23.110                  | 23.400 | 23.400                      | 1.10               | 2.20 | 25.600                          |                                                              |
|         | 2442                   | 24.040                  | 23.870 | 24.040                      | 1.60               | 3.00 | 26.870                          |                                                              |
|         | 2457                   | 23.130                  | 22.840 | 23.130                      | 1.60               | 3.00 | 25.840                          |                                                              |
|         | 2462                   | 21.380                  | 21.340 | 21.380                      | 1.60               | 3.00 | 24.340                          |                                                              |
|         | 2467                   | 19.300                  | 18.990 | 19.300                      | 1.60               | 3.00 | 21.990                          |                                                              |
|         | 2472                   | 17.050                  | 16.770 | 17.050                      | 1.60               | 3.00 | 19.770                          |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

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| Mode              | Centre Frequency<br>(MHz) | Peak Output Power<br>(dBm) |        | Total Peak<br>Output Power<br>Note 2 (dBm) | Directional<br>Gain Note 3 (dBi) | E.I.R.P <sup>Note 4</sup><br>(dBm) | Limit                                                           |
|-------------------|---------------------------|----------------------------|--------|--------------------------------------------|----------------------------------|------------------------------------|-----------------------------------------------------------------|
|                   |                           | Aux                        | Main   |                                            |                                  |                                    |                                                                 |
| 802.11n-HT20      | 2412                      | 18.900                     | 19.490 | 22.215                                     | 1.68                             | 23.895                             | <30dBm<br>(Maximum Peak<br>Output Power)<br><36dBm<br>(E.I.R.P) |
|                   | 2417                      | 21.250                     | 21.520 | 24.397                                     | 1.68                             | 26.077                             |                                                                 |
|                   | 2422                      | 22.610                     | 22.640 | 25.635                                     | 1.68                             | 27.315                             |                                                                 |
|                   | 2442                      | 23.460                     | 23.660 | 26.571                                     | 2.36                             | 28.931                             |                                                                 |
|                   | 2457                      | 22.400                     | 22.640 | 25.532                                     | 2.36                             | 27.892                             |                                                                 |
|                   | 2462                      | 19.300                     | 19.600 | 22.463                                     | 2.36                             | 24.823                             |                                                                 |
|                   | 2467                      | 15.490                     | 15.720 | 18.617                                     | 2.36                             | 20.977                             |                                                                 |
|                   | 2472                      | 11.400                     | 11.280 | 14.351                                     | 2.36                             | 16.711                             |                                                                 |
| 802.11n-HT40      | 2422                      | 19.980                     | 20.390 | 23.200                                     | 1.68                             | 24.880                             |                                                                 |
|                   | 2442                      | 20.740                     | 21.520 | 24.158                                     | 2.36                             | 26.518                             |                                                                 |
|                   | 2452                      | 20.200                     | 20.610 | 23.420                                     | 2.36                             | 25.780                             |                                                                 |
|                   | 2457                      | 15.250                     | 15.740 | 18.512                                     | 2.36                             | 20.872                             |                                                                 |
|                   | 2462                      | 12.030                     | 12.190 | 15.121                                     | 2.36                             | 17.481                             |                                                                 |
| 802.11ax-<br>HE20 | 2412                      | 19.270                     | 19.490 | 22.392                                     | 1.68                             | 24.072                             |                                                                 |
|                   | 2417                      | 21.510                     | 21.760 | 24.647                                     | 1.68                             | 26.327                             |                                                                 |
|                   | 2422                      | 22.930                     | 22.660 | 25.807                                     | 1.68                             | 27.487                             |                                                                 |
|                   | 2442                      | 23.800                     | 24.030 | 26.927                                     | 2.36                             | 29.287                             |                                                                 |
|                   | 2457                      | 22.650                     | 22.710 | 25.690                                     | 2.36                             | 28.050                             |                                                                 |
|                   | 2462                      | 19.740                     | 19.690 | 22.725                                     | 2.36                             | 25.085                             |                                                                 |
|                   | 2467                      | 15.780                     | 15.630 | 18.716                                     | 2.36                             | 21.076                             |                                                                 |
|                   | 2472                      | 11.510                     | 11.430 | 14.480                                     | 2.36                             | 16.840                             |                                                                 |
| 802.11ax-<br>HE40 | 2422                      | 20.050                     | 20.030 | 23.050                                     | 1.68                             | 24.730                             |                                                                 |
|                   | 2442                      | 20.960                     | 21.200 | 24.092                                     | 2.36                             | 26.452                             |                                                                 |
|                   | 2452                      | 19.720                     | 20.140 | 22.945                                     | 2.36                             | 25.305                             |                                                                 |
|                   | 2457                      | 15.010                     | 15.400 | 18.220                                     | 2.36                             | 20.580                             |                                                                 |
|                   | 2462                      | 12.320                     | 12.170 | 15.256                                     | 2.36                             | 17.616                             |                                                                 |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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| Mode          | Centre Frequency (MHz) | RU Configuration | Peak Output Power (dBm) |        | Total Peak Output Power Note 2 (dBm) | Directional Gain Note 3 (dBi) | E.I.R.P Note 4 (dBm) | Limit                                                        |
|---------------|------------------------|------------------|-------------------------|--------|--------------------------------------|-------------------------------|----------------------|--------------------------------------------------------------|
|               |                        |                  | Aux                     | Main   |                                      |                               |                      |                                                              |
| 802.11ax-HE20 | 2412                   | 26/30            | 22.260                  | 22.330 | 25.305                               | 1.68                          | 26.985               | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               |                        | 52/37            | 22.490                  | 22.580 | 25.546                               | 1.68                          | 27.226               |                                                              |
|               |                        | 106/53           | 22.180                  | 22.190 | 25.195                               | 1.68                          | 26.875               |                                                              |
|               | 2472                   | 26/8             | 18.720                  | 18.830 | 21.786                               | 2.36                          | 24.146               |                                                              |
|               |                        | 52/40            | 19.080                  | 18.940 | 22.021                               | 2.36                          | 24.381               |                                                              |
|               |                        | 106/54           | 19.080                  | 18.920 | 22.011                               | 2.36                          | 24.371               |                                                              |
| 802.11ax-HE40 | 2422                   | 242/61           | 19.570                  | 19.580 | 22.585                               | 1.68                          | 24.265               |                                                              |
|               | 2462                   | 242/62           | 17.700                  | 17.810 | 20.766                               | 2.36                          | 23.126               |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

| Mode               | Centre Frequency (MHz) | Peak Output Power (dBm) | Antenna Gain (dBi) | E.I.R.P (dBm) Note 2 | Limit                                                        |
|--------------------|------------------------|-------------------------|--------------------|----------------------|--------------------------------------------------------------|
|                    |                        | Aux                     | Aux                |                      |                                                              |
| BLE (1Mbps)        | 2402                   | 5.360                   | 1.60               | 6.960                | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|                    | 2440                   | 5.830                   | 1.60               | 7.430                |                                                              |
|                    | 2480                   | 6.180                   | 1.60               | 7.780                |                                                              |
| BLE (2Mbps)        | 2402                   | 5.460                   | 1.60               | 7.060                |                                                              |
|                    | 2440                   | 6.000                   | 1.60               | 7.600                |                                                              |
|                    | 2480                   | 6.200                   | 1.60               | 7.800                |                                                              |
| BLE (PHY Coded S2) | 2402                   | 6.090                   | 1.60               | 7.690                |                                                              |
|                    | 2440                   | 5.880                   | 1.60               | 7.480                |                                                              |
|                    | 2480                   | 5.450                   | 1.60               | 7.050                |                                                              |
| BLE (PHY Coded S8) | 2402                   | 5.470                   | 1.60               | 7.070                |                                                              |
|                    | 2440                   | 5.870                   | 1.60               | 7.470                |                                                              |
|                    | 2480                   | 6.170                   | 1.60               | 7.770                |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

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**Test SKU: SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode    | Centre Frequency (MHz) | Peak Output Power (dBm) |        | Max Peak Output Power (dBm) | Antenna Gain (dBi) |       | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|---------|------------------------|-------------------------|--------|-----------------------------|--------------------|-------|---------------------------------|--------------------------------------------------------------|
|         |                        | Aux                     | Main   |                             | Aux                | Main  |                                 |                                                              |
| 802.11b | 2412                   | 23.390                  | 23.170 | 23.390                      | 2.89               | -1.45 | 26.276                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|         | 2442                   | 23.360                  | 23.290 | 23.360                      | -0.07              | 0.26  | 23.555                          |                                                              |
|         | 2462                   | 23.220                  | 23.160 | 23.220                      | -0.07              | 0.26  | 23.425                          |                                                              |
|         | 2467                   | 22.670                  | 22.210 | 22.670                      | -0.07              | 0.26  | 22.603                          |                                                              |
|         | 2472                   | 20.650                  | 19.560 | 20.650                      | -0.07              | 0.26  | 20.583                          |                                                              |
| 802.11g | 2412                   | 21.490                  | 21.240 | 21.490                      | 2.89               | -1.45 | 24.376                          |                                                              |
|         | 2417                   | 23.110                  | 23.400 | 23.400                      | 2.89               | -1.45 | 25.996                          |                                                              |
|         | 2442                   | 24.040                  | 23.870 | 24.040                      | -0.07              | 0.26  | 24.135                          |                                                              |
|         | 2457                   | 23.130                  | 22.840 | 23.130                      | -0.07              | 0.26  | 23.105                          |                                                              |
|         | 2462                   | 21.380                  | 21.340 | 21.380                      | -0.07              | 0.26  | 21.605                          |                                                              |
|         | 2467                   | 19.300                  | 18.990 | 19.300                      | -0.07              | 0.26  | 19.255                          |                                                              |
|         | 2472                   | 17.050                  | 16.770 | 17.050                      | -0.07              | 0.26  | 17.035                          |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

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| Mode          | Centre Frequency (MHz) | Peak Output Power (dBm) |        | Total Peak Output Power Note 2 (dBm) | Directional Gain Note 3 (dBi) | E.I.R.P <sup>Note 4</sup> (dBm) | Limit                                                        |
|---------------|------------------------|-------------------------|--------|--------------------------------------|-------------------------------|---------------------------------|--------------------------------------------------------------|
|               |                        | Aux                     | Main   |                                      |                               |                                 |                                                              |
| 802.11n-HT20  | 2412                   | 18.900                  | 19.490 | 22.215                               | 1.24                          | 23.455                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               | 2417                   | 21.250                  | 21.520 | 24.397                               | 1.24                          | 25.637                          |                                                              |
|               | 2422                   | 22.610                  | 22.640 | 25.635                               | 1.24                          | 26.875                          |                                                              |
|               | 2442                   | 23.460                  | 23.660 | 26.571                               | 0.10                          | 26.671                          |                                                              |
|               | 2457                   | 22.400                  | 22.640 | 25.532                               | 0.10                          | 25.632                          |                                                              |
|               | 2462                   | 19.300                  | 19.600 | 22.463                               | 0.10                          | 22.563                          |                                                              |
|               | 2467                   | 15.490                  | 15.720 | 18.617                               | 0.10                          | 18.717                          |                                                              |
|               | 2472                   | 11.400                  | 11.280 | 14.351                               | 0.10                          | 14.451                          |                                                              |
| 802.11n-HT40  | 2422                   | 19.980                  | 20.390 | 23.200                               | 1.24                          | 24.440                          |                                                              |
|               | 2442                   | 20.740                  | 21.520 | 24.158                               | 0.10                          | 24.258                          |                                                              |
|               | 2452                   | 20.200                  | 20.610 | 23.420                               | 0.10                          | 23.520                          |                                                              |
|               | 2457                   | 15.250                  | 15.740 | 18.512                               | 0.10                          | 18.612                          |                                                              |
|               | 2462                   | 12.030                  | 12.190 | 15.121                               | 0.10                          | 15.221                          |                                                              |
| 802.11ax-HE20 | 2412                   | 19.270                  | 19.490 | 22.392                               | 1.24                          | 23.632                          |                                                              |
|               | 2417                   | 21.510                  | 21.760 | 24.647                               | 1.24                          | 25.887                          |                                                              |
|               | 2422                   | 22.930                  | 22.660 | 25.807                               | 1.24                          | 27.047                          |                                                              |
|               | 2442                   | 23.800                  | 24.030 | 26.927                               | 0.10                          | 27.027                          |                                                              |
|               | 2457                   | 22.650                  | 22.710 | 25.690                               | 0.10                          | 25.790                          |                                                              |
|               | 2462                   | 19.740                  | 19.690 | 22.725                               | 0.10                          | 22.825                          |                                                              |
|               | 2467                   | 15.780                  | 15.630 | 18.716                               | 0.10                          | 18.816                          |                                                              |
|               | 2472                   | 11.510                  | 11.430 | 14.480                               | 0.10                          | 14.580                          |                                                              |
| 802.11ax-HE40 | 2422                   | 20.050                  | 20.030 | 23.050                               | 1.24                          | 24.290                          |                                                              |
|               | 2442                   | 20.960                  | 21.200 | 24.092                               | 0.10                          | 24.192                          |                                                              |
|               | 2452                   | 19.720                  | 20.140 | 22.945                               | 0.10                          | 23.045                          |                                                              |
|               | 2457                   | 15.010                  | 15.400 | 18.220                               | 0.10                          | 18.320                          |                                                              |
|               | 2462                   | 12.320                  | 12.170 | 15.256                               | 0.10                          | 15.356                          |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain =  $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$  dBi

2400MHz: Directional gain =  $10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24$  dBi

2450MHz: Directional gain =  $10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10$  dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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| Mode          | Centre Frequency (MHz) | RU Configuration | Peak Output Power (dBm) |        | Total Peak Output Power<br>Note 2 (dBm) | Directional Gain<br>Note 3 (dBi) | E.I.R.P <sup>Note 4</sup> (dBm) | Limit                                                        |
|---------------|------------------------|------------------|-------------------------|--------|-----------------------------------------|----------------------------------|---------------------------------|--------------------------------------------------------------|
|               |                        |                  | Aux                     | Main   |                                         |                                  |                                 |                                                              |
| 802.11ax-HE20 | 2412                   | 26/30            | 22.260                  | 22.330 | 25.305                                  | 1.24                             | 26.545                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               |                        | 52/37            | 22.490                  | 22.580 | 25.546                                  | 1.24                             | 26.786                          |                                                              |
|               |                        | 106/53           | 22.180                  | 22.190 | 25.195                                  | 1.24                             | 26.435                          |                                                              |
|               | 2472                   | 26/8             | 18.720                  | 18.830 | 21.786                                  | 0.10                             | 21.886                          |                                                              |
|               |                        | 52/40            | 19.080                  | 18.940 | 22.021                                  | 0.10                             | 22.121                          |                                                              |
|               |                        | 106/54           | 19.080                  | 18.920 | 22.011                                  | 0.10                             | 22.111                          |                                                              |
| 802.11ax-HE40 | 2422                   | 242/61           | 19.570                  | 19.580 | 22.585                                  | 1.24                             | 23.825                          |                                                              |
|               | 2462                   | 242/62           | 17.700                  | 17.810 | 20.766                                  | 0.10                             | 20.866                          |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then  
Directional gain =  $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$  dBi

2400MHz: Directional gain =  $10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24$  dBi

2450MHz: Directional gain =  $10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10$  dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

| Mode               | Centre Frequency (MHz) | Peak Output Power (dBm) | Antenna Gain (dBi) | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|--------------------|------------------------|-------------------------|--------------------|---------------------------------|--------------------------------------------------------------|
|                    |                        | Aux                     | Aux                |                                 |                                                              |
| BLE (1Mbps)        | 2402                   | 5.360                   | 2.89               | 8.250                           | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|                    | 2440                   | 5.830                   | 2.89               | 8.720                           |                                                              |
|                    | 2480                   | 6.180                   | 2.89               | 9.070                           |                                                              |
| BLE (2Mbps)        | 2402                   | 5.460                   | 2.89               | 8.350                           |                                                              |
|                    | 2440                   | 6.000                   | 2.89               | 8.890                           |                                                              |
|                    | 2480                   | 6.200                   | 2.89               | 9.090                           |                                                              |
| BLE (PHY Coded S2) | 2402                   | 6.090                   | 2.89               | 8.980                           |                                                              |
|                    | 2440                   | 5.880                   | 2.89               | 8.770                           |                                                              |
|                    | 2480                   | 5.450                   | 2.89               | 8.340                           |                                                              |
| BLE (PHY Coded S8) | 2402                   | 5.470                   | 2.89               | 8.360                           |                                                              |
|                    | 2440                   | 5.870                   | 2.89               | 8.760                           |                                                              |
|                    | 2480                   | 6.170                   | 2.89               | 9.060                           |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

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**Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode    | Centre Frequency (MHz) | Peak Output Power (dBm) |       | Max Peak Output Power (dBm) | Antenna Gain (dBi) |      | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|---------|------------------------|-------------------------|-------|-----------------------------|--------------------|------|---------------------------------|--------------------------------------------------------------|
|         |                        | Aux                     | Main  |                             | Aux                | Main |                                 |                                                              |
| 802.11b | 2412                   | 22.20                   | 22.22 | 22.22                       | 2.90               | 3.10 | 25.320                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|         | 2442                   | 22.23                   | 22.20 | 22.23                       | 2.90               | 3.10 | 25.300                          |                                                              |
|         | 2462                   | 22.11                   | 22.07 | 22.11                       | 2.90               | 3.10 | 25.170                          |                                                              |
|         | 2467                   | 20.53                   | 19.42 | 20.53                       | 2.90               | 3.10 | 23.430                          |                                                              |
|         | 2472                   | 21.39                   | 21.12 | 21.39                       | 2.90               | 3.10 | 24.290                          |                                                              |
| 802.11g | 2412                   | 21.49                   | 21.24 | 21.49                       | 2.90               | 3.10 | 24.390                          |                                                              |
|         | 2417                   | 22.60                   | 22.77 | 22.77                       | 2.90               | 3.10 | 25.870                          |                                                              |
|         | 2442                   | 22.82                   | 22.65 | 22.82                       | 2.90               | 3.10 | 25.750                          |                                                              |
|         | 2457                   | 22.52                   | 22.40 | 22.52                       | 2.90               | 3.10 | 25.500                          |                                                              |
|         | 2462                   | 21.18                   | 21.24 | 21.24                       | 2.90               | 3.10 | 24.340                          |                                                              |
|         | 2467                   | 19.19                   | 18.82 | 19.19                       | 2.90               | 3.10 | 22.090                          |                                                              |
|         | 2472                   | 16.87                   | 16.63 | 16.87                       | 2.90               | 3.10 | 19.770                          |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

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| Mode          | Centre Frequency (MHz) | Peak Output Power (dBm) |       | Total Peak Output Power<br>Note 2 (dBm) | Directional Gain Note 3 (dBi) | E.I.R.P <sup>Note 4</sup> (dBm) | Limit                                                        |
|---------------|------------------------|-------------------------|-------|-----------------------------------------|-------------------------------|---------------------------------|--------------------------------------------------------------|
|               |                        | Aux                     | Main  |                                         |                               |                                 |                                                              |
| 802.11n-HT20  | 2412                   | 18.70                   | 19.35 | 22.05                                   | 3.00                          | 25.050                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               | 2417                   | 21.14                   | 21.40 | 24.28                                   | 3.00                          | 27.280                          |                                                              |
|               | 2422                   | 22.55                   | 22.61 | 25.59                                   | 3.00                          | 28.590                          |                                                              |
|               | 2442                   | 22.39                   | 22.45 | 25.43                                   | 3.00                          | 28.430                          |                                                              |
|               | 2457                   | 22.42                   | 22.43 | 25.44                                   | 3.00                          | 28.440                          |                                                              |
|               | 2462                   | 19.13                   | 19.45 | 22.30                                   | 3.00                          | 25.300                          |                                                              |
|               | 2467                   | 15.29                   | 15.54 | 18.43                                   | 3.00                          | 21.430                          |                                                              |
|               | 2472                   | 11.22                   | 11.13 | 14.19                                   | 3.00                          | 17.190                          |                                                              |
| 802.11n-HT40  | 2422                   | 19.83                   | 20.27 | 23.07                                   | 3.00                          | 26.070                          |                                                              |
|               | 2442                   | 20.59                   | 21.39 | 24.02                                   | 3.00                          | 27.020                          |                                                              |
|               | 2452                   | 20.08                   | 20.47 | 23.29                                   | 3.00                          | 26.290                          |                                                              |
|               | 2457                   | 15.11                   | 15.63 | 18.39                                   | 3.00                          | 21.390                          |                                                              |
|               | 2462                   | 11.87                   | 11.99 | 14.94                                   | 3.00                          | 17.940                          |                                                              |
| 802.11ax-HE20 | 2412                   | 19.12                   | 19.34 | 22.24                                   | 3.00                          | 25.240                          |                                                              |
|               | 2417                   | 21.36                   | 21.58 | 24.48                                   | 3.00                          | 27.480                          |                                                              |
|               | 2422                   | 22.66                   | 22.72 | 25.70                                   | 3.00                          | 28.700                          |                                                              |
|               | 2442                   | 22.60                   | 22.58 | 25.60                                   | 3.00                          | 28.600                          |                                                              |
|               | 2457                   | 22.59                   | 22.56 | 25.59                                   | 3.00                          | 28.590                          |                                                              |
|               | 2462                   | 19.62                   | 19.56 | 22.60                                   | 3.00                          | 25.600                          |                                                              |
|               | 2467                   | 15.62                   | 15.45 | 18.55                                   | 3.00                          | 21.550                          |                                                              |
|               | 2472                   | 11.31                   | 11.31 | 14.32                                   | 3.00                          | 17.320                          |                                                              |
| 802.11ax-HE40 | 2422                   | 19.90                   | 19.91 | 22.92                                   | 3.00                          | 25.920                          |                                                              |
|               | 2442                   | 20.82                   | 21.07 | 23.96                                   | 3.00                          | 26.960                          |                                                              |
|               | 2452                   | 19.54                   | 19.99 | 22.78                                   | 3.00                          | 25.780                          |                                                              |
|               | 2457                   | 14.89                   | 15.29 | 18.10                                   | 3.00                          | 21.100                          |                                                              |
|               | 2462                   | 12.14                   | 12.01 | 15.09                                   | 3.00                          | 18.090                          |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{-}2500\text{MHz: Directional gain} = 10 \log[(10^{2.90/10} + 10^{3.10/10})/2] = 3.00\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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| Mode          | Centre Frequency (MHz) | RU Configuration | Peak Output Power (dBm) |       | Total Peak Output Power Note 2 (dBm) | Directional Gain Note 3 (dBi) | E.I.R.P <sup>Note 4</sup> (dBm) | Limit                                                        |
|---------------|------------------------|------------------|-------------------------|-------|--------------------------------------|-------------------------------|---------------------------------|--------------------------------------------------------------|
|               |                        |                  | Aux                     | Main  |                                      |                               |                                 |                                                              |
| 802.11ax-HE20 | 2412                   | 26/0             | 22.31                   | 22.37 | 25.35                                | 3.00                          | 28.350                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               |                        | 52/37            | 22.46                   | 22.53 | 25.51                                | 3.00                          | 28.510                          |                                                              |
|               |                        | 106/53           | 22.19                   | 22.16 | 25.19                                | 3.00                          | 28.190                          |                                                              |
|               | 2472                   | 26/8             | 18.62                   | 18.70 | 21.67                                | 3.00                          | 24.670                          |                                                              |
|               |                        | 52/40            | 18.94                   | 18.81 | 21.89                                | 3.00                          | 24.890                          |                                                              |
|               |                        | 106/54           | 18.88                   | 18.77 | 21.84                                | 3.00                          | 24.840                          |                                                              |
| 802.11ax-HE40 | 2422                   | 242/61           | 19.46                   | 19.43 | 22.46                                | 3.00                          | 25.460                          |                                                              |
|               | 2442                   | 242/62           | 17.54                   | 17.68 | 20.62                                | 3.00                          | 23.620                          |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{-}2500\text{MHz: Directional gain} = 10 \log[(10^{2.90/10} + 10^{3.10/10})/2] = 3.00\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

| Mode               | Centre Frequency (MHz) | Peak Output Power (dBm) | Antenna Gain (dBi) | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|--------------------|------------------------|-------------------------|--------------------|---------------------------------|--------------------------------------------------------------|
|                    |                        | Aux                     | Aux                |                                 |                                                              |
| BLE (1Mbps)        | 2402                   | 5.30                    | 2.90               | 8.200                           | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|                    | 2440                   | 5.77                    | 2.90               | 8.670                           |                                                              |
|                    | 2480                   | 6.10                    | 2.90               | 9.000                           |                                                              |
| BLE (2Mbps)        | 2402                   | 5.43                    | 2.90               | 8.330                           |                                                              |
|                    | 2440                   | 5.93                    | 2.90               | 8.830                           |                                                              |
|                    | 2480                   | 6.17                    | 2.90               | 9.070                           |                                                              |
| BLE (PHY Coded S2) | 2402                   | 5.38                    | 2.90               | 8.280                           |                                                              |
|                    | 2440                   | 5.85                    | 2.90               | 8.750                           |                                                              |
|                    | 2480                   | 6.05                    | 2.90               | 8.950                           |                                                              |
| BLE (PHY Coded S8) | 2402                   | 5.44                    | 2.90               | 8.340                           |                                                              |
|                    | 2440                   | 5.78                    | 2.90               | 8.680                           |                                                              |
|                    | 2480                   | 6.15                    | 2.90               | 9.050                           |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

### A.3.2 Average Output Power (Reporting only)

#### ● SPOT CHECK Power

**Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna] &**

**SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode    | Centre Frequency (MHz) | Average Output Power (dBm) |       | 10log (1/X) | Max. Average Output Power (dBm) |
|---------|------------------------|----------------------------|-------|-------------|---------------------------------|
|         |                        | Aux                        | Main  |             |                                 |
| 802.11b | 2412                   | 19.44                      | 19.89 | N/A         | 19.89                           |
|         | 2442                   | 19.42                      | 19.80 |             | 19.80                           |
|         | 2462                   | 19.44                      | 19.67 |             | 19.67                           |
|         | 2467                   | 19.01                      | 18.70 |             | 19.01                           |
|         | 2472                   | 16.24                      | 15.73 |             | 16.24                           |
| 802.11g | 2412                   | 16.32                      | 16.40 | 0.101       | 16.50                           |
|         | 2417                   | 18.36                      | 18.75 |             | 18.85                           |
|         | 2442                   | 19.23                      | 19.23 |             | 19.33                           |
|         | 2457                   | 17.82                      | 17.80 |             | 17.92                           |
|         | 2462                   | 16.06                      | 16.29 |             | 16.39                           |
|         | 2467                   | 14.26                      | 13.92 |             | 14.36                           |
|         | 2472                   | 11.09                      | 11.05 |             | 11.19                           |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

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SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode          | Centre Frequency (MHz) | Average Output Power (dBm) |       | 10log (1/X) | Total. Average Output Power (dBm) |
|---------------|------------------------|----------------------------|-------|-------------|-----------------------------------|
|               |                        | Aux                        | Main  |             |                                   |
| 802.11n-HT20  | 2412                   | 14.13                      | 14.31 | N/A         | 17.23                             |
|               | 2417                   | 16.44                      | 16.86 |             | 19.67                             |
|               | 2422                   | 17.76                      | 17.49 |             | 20.64                             |
|               | 2442                   | 19.15                      | 19.24 |             | 22.21                             |
|               | 2457                   | 17.38                      | 17.45 |             | 20.43                             |
|               | 2462                   | 14.25                      | 14.50 |             | 17.39                             |
|               | 2467                   | 10.47                      | 10.43 |             | 13.46                             |
|               | 2472                   | 5.42                       | 5.04  |             | 8.24                              |
| 802.11n-HT40  | 2422                   | 13.95                      | 13.66 | N/A         | 16.82                             |
|               | 2442                   | 14.49                      | 14.96 |             | 17.74                             |
|               | 2452                   | 13.75                      | 14.08 |             | 16.93                             |
|               | 2457                   | 8.58                       | 9.05  |             | 11.83                             |
|               | 2462                   | 5.82                       | 5.58  |             | 8.71                              |
| 802.11ax-HE20 | 2412                   | 14.02                      | 14.54 | N/A         | 17.30                             |
|               | 2417                   | 16.56                      | 16.57 |             | 19.58                             |
|               | 2422                   | 17.64                      | 17.74 |             | 20.70                             |
|               | 2442                   | 19.11                      | 19.38 |             | 22.26                             |
|               | 2457                   | 17.69                      | 17.70 |             | 20.71                             |
|               | 2462                   | 14.81                      | 14.54 |             | 17.69                             |
|               | 2467                   | 10.75                      | 10.59 |             | 13.68                             |
|               | 2472                   | 5.47                       | 5.07  |             | 8.28                              |
| 802.11ax-HE40 | 2422                   | 13.54                      | 13.74 | N/A         | 16.65                             |
|               | 2442                   | 14.39                      | 14.75 |             | 17.58                             |
|               | 2452                   | 13.27                      | 13.65 |             | 16.47                             |
|               | 2457                   | 8.44                       | 8.94  |             | 11.71                             |
|               | 2462                   | 5.20                       | 5.16  |             | 8.19                              |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

| Mode         | Centre Frequency (MHz) | RU Configuration | Average Output Power (dBm) |       | 10log (1/X) | Total. Average Output Power (dBm) |
|--------------|------------------------|------------------|----------------------------|-------|-------------|-----------------------------------|
|              |                        |                  | Aux                        | Main  |             |                                   |
| 802.11n-HT20 | 2412                   | 26/0             | 17.26                      | 17.07 | 0.438       | 20.61                             |
|              |                        | 52/37            | 17.74                      | 17.67 | 0.287       | 21.00                             |
|              |                        | 106/53           | 17.61                      | 17.67 | 0.155       | 20.81                             |
|              | 2472                   | 26/8             | 4.89                       | 5.10  | 0.438       | 8.44                              |
|              |                        | 52/40            | 5.89                       | 5.89  | 0.287       | 9.19                              |
|              |                        | 106/54           | 6.13                       | 6.03  | 0.155       | 9.25                              |
| 802.11n-HT40 | 2422                   | 242/61           | 14.43                      | 14.19 | N/A         | 17.32                             |
|              | 2462                   | 242/62           | 6.16                       | 6.07  | N/A         | 9.13                              |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

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**Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode    | Centre Frequency (MHz) | Average Output Power (dBm) |       | 10log (1/X) | Max. Average Output Power (dBm) |
|---------|------------------------|----------------------------|-------|-------------|---------------------------------|
|         |                        | Aux                        | Main  |             |                                 |
| 802.11b | 2412                   | 17.95                      | 17.96 | N/A         | 17.96                           |
|         | 2442                   | 18.17                      | 17.99 |             | 18.17                           |
|         | 2462                   | 17.90                      | 17.86 |             | 17.90                           |
|         | 2467                   | 16.17                      | 15.62 |             | 16.17                           |
|         | 2472                   | 16.52                      | 16.45 |             | 16.52                           |
| 802.11g | 2412                   | 16.58                      | 16.66 | 0.101       | 16.76                           |
|         | 2417                   | 17.66                      | 17.66 |             | 17.76                           |
|         | 2442                   | 17.65                      | 17.72 |             | 17.82                           |
|         | 2457                   | 17.59                      | 17.43 |             | 17.69                           |
|         | 2462                   | 16.01                      | 16.29 |             | 16.39                           |
|         | 2467                   | 14.21                      | 13.79 |             | 14.31                           |
|         | 2472                   | 10.87                      | 10.94 |             | 11.04                           |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

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**Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode          | Centre Frequency (MHz) | Average Output Power (dBm) |       | 10log (1/X) | Total. Average Output Power (dBm) |
|---------------|------------------------|----------------------------|-------|-------------|-----------------------------------|
|               |                        | Aux                        | Main  |             |                                   |
| 802.11n-HT20  | 2412                   | 13.92                      | 14.29 | N/A         | 17.12                             |
|               | 2417                   | 16.23                      | 16.51 |             | 19.38                             |
|               | 2422                   | 17.47                      | 17.51 |             | 20.50                             |
|               | 2442                   | 17.59                      | 17.50 |             | 20.56                             |
|               | 2457                   | 17.32                      | 17.39 |             | 20.37                             |
|               | 2462                   | 14.18                      | 14.26 |             | 17.23                             |
|               | 2467                   | 10.46                      | 10.29 |             | 13.39                             |
|               | 2472                   | 5.25                       | 4.98  |             | 8.13                              |
| 802.11n-HT40  | 2422                   | 13.69                      | 13.52 | N/A         | 16.62                             |
|               | 2442                   | 14.51                      | 14.88 |             | 17.71                             |
|               | 2452                   | 13.52                      | 13.99 |             | 16.77                             |
|               | 2457                   | 8.52                       | 9.03  |             | 11.79                             |
|               | 2462                   | 5.59                       | 5.25  |             | 8.43                              |
| 802.11ax-HE20 | 2412                   | 13.98                      | 14.39 | N/A         | 17.20                             |
|               | 2417                   | 16.51                      | 16.40 |             | 19.47                             |
|               | 2422                   | 17.50                      | 17.53 |             | 20.53                             |
|               | 2442                   | 17.63                      | 17.67 |             | 20.66                             |
|               | 2457                   | 17.35                      | 17.36 |             | 20.37                             |
|               | 2462                   | 14.50                      | 14.26 |             | 17.39                             |
|               | 2467                   | 10.67                      | 10.55 |             | 13.62                             |
|               | 2472                   | 5.29                       | 5.08  |             | 8.20                              |
| 802.11ax-HE40 | 2422                   | 13.26                      | 13.74 | N/A         | 16.52                             |
|               | 2442                   | 14.13                      | 14.44 |             | 17.30                             |
|               | 2452                   | 13.04                      | 13.58 |             | 16.33                             |
|               | 2457                   | 8.30                       | 8.88  |             | 11.61                             |
|               | 2462                   | 4.92                       | 5.21  |             | 8.08                              |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

| Mode         | Centre Frequency (MHz) | RU Configuration | Average Output Power (dBm) |       | 10log (1/X) | Total. Average Output Power (dBm) |
|--------------|------------------------|------------------|----------------------------|-------|-------------|-----------------------------------|
|              |                        |                  | Aux                        | Main  |             |                                   |
| 802.11n-HT20 | 2412                   | 26/0             | 17.04                      | 17.36 | 0.438       | 20.65                             |
|              |                        | 52/37            | 17.55                      | 17.50 | 0.287       | 20.82                             |
|              |                        | 106/53           | 17.71                      | 17.65 | 0.155       | 20.85                             |
|              | 2472                   | 26/8             | 4.77                       | 4.91  | 0.438       | 8.29                              |
|              |                        | 52/40            | 5.65                       | 5.84  | 0.287       | 9.04                              |
|              |                        | 106/54           | 5.87                       | 5.76  | 0.155       | 8.98                              |
| 802.11n-HT40 | 2422                   | 242/61           | 14.21                      | 14.22 | N/A         | 17.23                             |
|              | 2462                   | 242/62           | 6.09                       | 5.87  | N/A         | 8.99                              |

Note: 1. The results have been included cable loss.

2. We did spot check for output power and all output power values keep identical or lower thus other conducted items is exempt.

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● **Original Average Output Power (FCC ID: BEJNT-17Z90R & IC: 2703H-17Z90R)**

**Test SKU: SKU #1 [with (INPAQ) WA-P-LELE-04-011 Antenna]**

| Mode    | Centre Frequency (MHz) | Average Output Power (dBm) |        | Duty cycle factor (dB)<br>10log (1/x) | Max Average Output Power (dBm) | Antenna Gain (dBi) |      | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|---------|------------------------|----------------------------|--------|---------------------------------------|--------------------------------|--------------------|------|---------------------------------|--------------------------------------------------------------|
|         |                        | Aux                        | Main   |                                       |                                | Aux                | Main |                                 |                                                              |
| 802.11b | 2412                   | 19.570                     | 20.080 | N/A                                   | 20.080                         | 1.10               | 2.20 | 22.280                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|         | 2442                   | 19.530                     | 20.030 |                                       | 20.030                         | 1.60               | 3.00 | 23.030                          |                                                              |
|         | 2462                   | 19.700                     | 19.970 |                                       | 19.970                         | 1.60               | 3.00 | 22.970                          |                                                              |
|         | 2467                   | 19.110                     | 18.910 |                                       | 19.110                         | 1.60               | 3.00 | 21.910                          |                                                              |
|         | 2472                   | 16.510                     | 15.900 |                                       | 16.510                         | 1.60               | 3.00 | 18.900                          |                                                              |
| 802.11g | 2412                   | 16.430                     | 16.670 | 0.101                                 | 16.771                         | 1.10               | 2.20 | 18.971                          |                                                              |
|         | 2417                   | 18.640                     | 19.010 |                                       | 19.090                         | 1.10               | 2.20 | 21.311                          |                                                              |
|         | 2442                   | 19.420                     | 19.470 |                                       | 19.571                         | 1.60               | 3.00 | 22.571                          |                                                              |
|         | 2457                   | 18.110                     | 17.970 |                                       | 18.211                         | 1.60               | 3.00 | 21.071                          |                                                              |
|         | 2462                   | 16.260                     | 16.580 |                                       | 16.681                         | 1.60               | 3.00 | 19.681                          |                                                              |
|         | 2467                   | 14.490                     | 14.220 |                                       | 14.591                         | 1.60               | 3.00 | 17.321                          |                                                              |
|         | 2472                   | 11.270                     | 11.230 |                                       | 11.371                         | 1.60               | 3.00 | 14.331                          |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

3. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

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| Mode          | Centre Frequency (MHz) | Average Output Power (dBm) |        | Duty cycle factor (dB)<br>10log (1/x) | Total Average Output Power<br>Note 2 (dBm) | Directional Gain<br>Note 3 (dBi) | Average Output Power (E.I.R.P.)<br>Note 4 (dBm) | Limit                                                        |
|---------------|------------------------|----------------------------|--------|---------------------------------------|--------------------------------------------|----------------------------------|-------------------------------------------------|--------------------------------------------------------------|
|               |                        | Aux                        | Main   |                                       |                                            |                                  |                                                 |                                                              |
| 802.11n-HT20  | 2412                   | 14.320                     | 14.560 | N/A                                   | 17.452                                     | 1.68                             | 19.132                                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               | 2417                   | 16.600                     | 16.970 |                                       | 19.799                                     | 1.68                             | 21.479                                          |                                                              |
|               | 2422                   | 17.880                     | 17.720 |                                       | 20.811                                     | 1.68                             | 22.491                                          |                                                              |
|               | 2442                   | 19.430                     | 19.470 |                                       | 22.460                                     | 2.36                             | 24.820                                          |                                                              |
|               | 2457                   | 17.630                     | 17.750 |                                       | 20.701                                     | 2.36                             | 23.061                                          |                                                              |
|               | 2462                   | 14.410                     | 14.680 |                                       | 17.557                                     | 2.36                             | 19.917                                          |                                                              |
|               | 2467                   | 10.710                     | 10.660 |                                       | 13.695                                     | 2.36                             | 16.055                                          |                                                              |
|               | 2472                   | 5.520                      | 5.320  |                                       | 8.431                                      | 2.36                             | 10.791                                          |                                                              |
| 802.11n-HT40  | 2422                   | 14.080                     | 13.940 | N/A                                   | 17.021                                     | 1.68                             | 18.701                                          |                                                              |
|               | 2442                   | 14.750                     | 15.170 |                                       | 17.975                                     | 2.36                             | 20.335                                          |                                                              |
|               | 2452                   | 14.010                     | 14.380 |                                       | 17.209                                     | 2.36                             | 19.569                                          |                                                              |
|               | 2457                   | 8.870                      | 9.270  |                                       | 12.085                                     | 2.36                             | 14.445                                          |                                                              |
|               | 2462                   | 5.930                      | 5.730  |                                       | 8.841                                      | 2.36                             | 11.201                                          |                                                              |
| 802.11ax-HE20 | 2412                   | 14.280                     | 14.680 | N/A                                   | 17.495                                     | 1.68                             | 19.175                                          |                                                              |
|               | 2417                   | 16.770                     | 16.760 |                                       | 19.775                                     | 1.68                             | 21.455                                          |                                                              |
|               | 2422                   | 17.840                     | 17.910 |                                       | 20.885                                     | 1.68                             | 22.565                                          |                                                              |
|               | 2442                   | 19.280                     | 19.620 |                                       | 22.464                                     | 2.36                             | 24.824                                          |                                                              |
|               | 2457                   | 17.930                     | 17.830 |                                       | 20.891                                     | 2.36                             | 23.251                                          |                                                              |
|               | 2462                   | 14.920                     | 14.660 |                                       | 17.802                                     | 2.36                             | 20.162                                          |                                                              |
|               | 2467                   | 11.020                     | 10.800 |                                       | 13.922                                     | 2.36                             | 16.282                                          |                                                              |
|               | 2472                   | 5.680                      | 5.360  |                                       | 8.533                                      | 2.36                             | 10.893                                          |                                                              |
| 802.11ax-HE40 | 2422                   | 13.680                     | 13.980 | N/A                                   | 16.843                                     | 1.68                             | 18.523                                          |                                                              |
|               | 2442                   | 14.560                     | 14.890 |                                       | 17.738                                     | 2.36                             | 20.098                                          |                                                              |
|               | 2452                   | 13.410                     | 13.860 |                                       | 16.651                                     | 2.36                             | 19.011                                          |                                                              |
|               | 2457                   | 8.680                      | 9.150  |                                       | 11.932                                     | 2.36                             | 14.292                                          |                                                              |
|               | 2462                   | 5.340                      | 5.440  |                                       | 8.401                                      | 2.36                             | 10.761                                          |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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| Mode          | Centre Frequency (MHz) | RU Configuration | Average Output Power (dBm) |        | Duty cycle factor (dB) 10log | Total Average Output Power Note 2 (dBm) | Directional Gain Note 3 (dBi) | Average Output Power (E.I.R.P.) Note 4 | Limit                                                        |
|---------------|------------------------|------------------|----------------------------|--------|------------------------------|-----------------------------------------|-------------------------------|----------------------------------------|--------------------------------------------------------------|
|               |                        |                  | Aux                        | Main   |                              |                                         |                               |                                        |                                                              |
| 802.11ax-HE20 | 2412                   | 26/30            | 17.420                     | 17.350 | 0.264                        | 20.659                                  | 1.68                          | 22.339                                 | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               |                        | 52/37            | 17.960                     | 17.860 | 0.146                        | 21.067                                  | 1.68                          | 22.747                                 |                                                              |
|               |                        | 106/53           | 17.810                     | 17.930 | N/A                          | 20.881                                  | 1.68                          | 22.561                                 |                                                              |
|               | 2472                   | 26/8             | 5.190                      | 5.260  | 0.264                        | 8.499                                   | 2.36                          | 10.859                                 |                                                              |
|               |                        | 52/40            | 6.060                      | 6.150  | 0.146                        | 9.262                                   | 2.36                          | 11.622                                 |                                                              |
|               |                        | 106/54           | 6.270                      | 6.200  | N/A                          | 9.245                                   | 2.36                          | 11.605                                 |                                                              |
| 802.11ax-HE40 | 2422                   | 242/61           | 14.540                     | 14.430 | 0.150                        | 17.646                                  | 1.68                          | 19.326                                 |                                                              |
|               | 2462                   | 242/62           | 6.350                      | 6.260  | 0.150                        | 9.466                                   | 2.36                          | 11.826                                 |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

Directional gain =  $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$  dBi

2400MHz: Directional gain =  $10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68$  dBi

2450MHz: Directional gain =  $10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36$  dBi

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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**Test SKU: SKU #2 [with (LUXSHARE-ICT) L1LRF009-CS-H Antenna]**

| Mode    | Centre Frequency (MHz) | Average Output Power (dBm) |        | Duty cycle factor (dB)<br>10log (1/x) | Max Average Output Power (dBm) | Antenna Gain (dBi) |       | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|---------|------------------------|----------------------------|--------|---------------------------------------|--------------------------------|--------------------|-------|---------------------------------|--------------------------------------------------------------|
|         |                        | Aux                        | Main   |                                       |                                | Aux                | Main  |                                 |                                                              |
| 802.11b | 2412                   | 19.570                     | 20.080 | N/A                                   | 20.080                         | 2.89               | -1.45 | 22.460                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|         | 2442                   | 19.530                     | 20.030 |                                       | 20.030                         | -0.07              | 0.26  | 20.290                          |                                                              |
|         | 2462                   | 19.700                     | 19.970 |                                       | 19.970                         | -0.07              | 0.26  | 20.230                          |                                                              |
|         | 2467                   | 19.110                     | 18.910 |                                       | 19.110                         | -0.07              | 0.26  | 19.170                          |                                                              |
|         | 2472                   | 16.510                     | 15.900 |                                       | 16.510                         | -0.07              | 0.26  | 16.440                          |                                                              |
| 802.11g | 2412                   | 16.430                     | 16.670 | 0.101                                 | 16.771                         | 2.89               | -1.45 | 19.421                          |                                                              |
|         | 2417                   | 18.640                     | 19.010 |                                       | 19.090                         | 2.89               | -1.45 | 21.631                          |                                                              |
|         | 2442                   | 19.420                     | 19.470 |                                       | 19.571                         | -0.07              | 0.26  | 19.831                          |                                                              |
|         | 2457                   | 18.110                     | 17.970 |                                       | 18.211                         | -0.07              | 0.26  | 18.331                          |                                                              |
|         | 2462                   | 16.260                     | 16.580 |                                       | 16.681                         | -0.07              | 0.26  | 16.941                          |                                                              |
|         | 2467                   | 14.490                     | 14.220 |                                       | 14.591                         | -0.07              | 0.26  | 14.581                          |                                                              |
|         | 2472                   | 11.270                     | 11.230 |                                       | 11.371                         | -0.07              | 0.26  | 11.591                          |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

3. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

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| Mode          | Centre Frequency (MHz) | Average Output Power (dBm) |        | Duty cycle factor (dB)<br>10log (1/x) | Total Average Output Power<br>Note 2 (dBm) | Directional Gain<br>Note 3 (dBi) | Average Output Power (E.I.R.P.)<br>Note 4 (dBm) | Limit                                                        |
|---------------|------------------------|----------------------------|--------|---------------------------------------|--------------------------------------------|----------------------------------|-------------------------------------------------|--------------------------------------------------------------|
|               |                        | Aux                        | Main   |                                       |                                            |                                  |                                                 |                                                              |
| 802.11n-HT20  | 2412                   | 14.320                     | 14.560 | N/A                                   | 17.452                                     | 1.24                             | 18.692                                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               | 2417                   | 16.600                     | 16.970 |                                       | 19.799                                     | 1.24                             | 21.039                                          |                                                              |
|               | 2422                   | 17.880                     | 17.720 |                                       | 20.811                                     | 1.24                             | 22.051                                          |                                                              |
|               | 2442                   | 19.430                     | 19.470 |                                       | 22.460                                     | 0.10                             | 22.560                                          |                                                              |
|               | 2457                   | 17.630                     | 17.750 |                                       | 20.701                                     | 0.10                             | 20.801                                          |                                                              |
|               | 2462                   | 14.410                     | 14.680 |                                       | 17.557                                     | 0.10                             | 17.657                                          |                                                              |
|               | 2467                   | 10.710                     | 10.660 |                                       | 13.695                                     | 0.10                             | 13.795                                          |                                                              |
|               | 2472                   | 5.520                      | 5.320  |                                       | 8.431                                      | 0.10                             | 8.531                                           |                                                              |
| 802.11n-HT40  | 2422                   | 14.080                     | 13.940 | N/A                                   | 17.021                                     | 1.24                             | 18.261                                          |                                                              |
|               | 2442                   | 14.750                     | 15.170 |                                       | 17.975                                     | 0.10                             | 18.075                                          |                                                              |
|               | 2452                   | 14.010                     | 14.380 |                                       | 17.209                                     | 0.10                             | 17.309                                          |                                                              |
|               | 2457                   | 8.870                      | 9.270  |                                       | 12.085                                     | 0.10                             | 12.185                                          |                                                              |
|               | 2462                   | 5.930                      | 5.730  |                                       | 8.841                                      | 0.10                             | 8.941                                           |                                                              |
| 802.11ax-HE20 | 2412                   | 14.280                     | 14.680 | N/A                                   | 17.495                                     | 1.24                             | 18.735                                          |                                                              |
|               | 2417                   | 16.770                     | 16.760 |                                       | 19.775                                     | 1.24                             | 21.015                                          |                                                              |
|               | 2422                   | 17.840                     | 17.910 |                                       | 20.885                                     | 1.24                             | 22.125                                          |                                                              |
|               | 2442                   | 19.280                     | 19.620 |                                       | 22.464                                     | 0.10                             | 22.564                                          |                                                              |
|               | 2457                   | 17.930                     | 17.830 |                                       | 20.891                                     | 0.10                             | 20.991                                          |                                                              |
|               | 2462                   | 14.920                     | 14.660 |                                       | 17.802                                     | 0.10                             | 17.902                                          |                                                              |
|               | 2467                   | 11.020                     | 10.800 |                                       | 13.922                                     | 0.10                             | 14.022                                          |                                                              |
|               | 2472                   | 5.680                      | 5.360  |                                       | 8.533                                      | 0.10                             | 8.633                                           |                                                              |
| 802.11ax-HE40 | 2422                   | 13.680                     | 13.980 | N/A                                   | 16.843                                     | 1.24                             | 18.083                                          |                                                              |
|               | 2442                   | 14.560                     | 14.890 |                                       | 17.738                                     | 0.10                             | 17.838                                          |                                                              |
|               | 2452                   | 13.410                     | 13.860 |                                       | 16.651                                     | 0.10                             | 16.751                                          |                                                              |
|               | 2457                   | 8.680                      | 9.150  |                                       | 11.932                                     | 0.10                             | 12.032                                          |                                                              |
|               | 2462                   | 5.340                      | 5.440  |                                       | 8.401                                      | 0.10                             | 8.501                                           |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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| Mode          | Centre Frequency (MHz) | RU Configuration | Average Output Power (dBm) |        | Duty cycle factor (dB) 10log | Total Average Output Power Note 2 (dBm) | Directional Gain Note 3 (dBi) | Average Output Power (E.I.R.P.) Note 4 | Limit                                                        |
|---------------|------------------------|------------------|----------------------------|--------|------------------------------|-----------------------------------------|-------------------------------|----------------------------------------|--------------------------------------------------------------|
|               |                        |                  | Aux                        | Main   |                              |                                         |                               |                                        |                                                              |
| 802.11ax-HE20 | 2412                   | 26/30            | 17.420                     | 17.350 | 0.264                        | 20.659                                  | 1.24                          | 21.899                                 | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               |                        | 52/37            | 17.960                     | 17.860 | 0.146                        | 21.067                                  | 1.24                          | 22.307                                 |                                                              |
|               |                        | 106/53           | 17.810                     | 17.930 | N/A                          | 20.881                                  | 1.24                          | 22.121                                 |                                                              |
|               | 2472                   | 26/8             | 5.190                      | 5.260  | 0.264                        | 8.499                                   | 0.10                          | 8.599                                  |                                                              |
|               |                        | 52/40            | 6.060                      | 6.150  | 0.146                        | 9.262                                   | 0.10                          | 9.362                                  |                                                              |
|               |                        | 106/54           | 6.270                      | 6.200  | N/A                          | 9.245                                   | 0.10                          | 9.345                                  |                                                              |
| 802.11ax-HE40 | 2422                   | 242/61           | 14.540                     | 14.430 | 0.150                        | 17.646                                  | 1.24                          | 18.886                                 |                                                              |
|               | 2462                   | 242/62           | 6.350                      | 6.260  | 0.150                        | 9.466                                   | 0.10                          | 9.566                                  |                                                              |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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**Test SKU: SKU #3 [with (INPAQ) WA-P-LBLB-04-108 Antenna]**

| Mode    | Centre Frequency (MHz) | Average Output Power (dBm) |       | Duty cycle factor (dB)<br>10log (1/x) | Max Average Output Power (dBm) | Antenna Gain (dBi) |      | E.I.R.P (dBm) <sup>Note 2</sup> | Limit                                                        |
|---------|------------------------|----------------------------|-------|---------------------------------------|--------------------------------|--------------------|------|---------------------------------|--------------------------------------------------------------|
|         |                        | Aux                        | Main  |                                       |                                | Aux                | Main |                                 |                                                              |
| 802.11b | 2412                   | 18.23                      | 18.24 | N/A                                   | 18.24                          | 2.90               | 3.10 | 21.340                          | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|         | 2442                   | 18.28                      | 18.19 |                                       | 18.28                          | 2.90               | 3.10 | 21.290                          |                                                              |
|         | 2462                   | 18.09                      | 18.05 |                                       | 18.09                          | 2.90               | 3.10 | 21.150                          |                                                              |
|         | 2467                   | 16.41                      | 15.76 |                                       | 16.41                          | 2.90               | 3.10 | 19.310                          |                                                              |
|         | 2472                   | 16.66                      | 16.75 |                                       | 16.75                          | 2.90               | 3.10 | 19.850                          |                                                              |
| 802.11g | 2412                   | 16.80                      | 16.86 | N/A                                   | 16.86                          | 2.90               | 3.10 | 19.960                          |                                                              |
|         | 2417                   | 17.77                      | 17.84 |                                       | 17.84                          | 2.90               | 3.10 | 20.940                          |                                                              |
|         | 2442                   | 17.87                      | 17.82 |                                       | 17.87                          | 2.90               | 3.10 | 20.920                          |                                                              |
|         | 2457                   | 17.69                      | 17.64 |                                       | 17.69                          | 2.90               | 3.10 | 20.740                          |                                                              |
|         | 2462                   | 16.12                      | 16.42 |                                       | 16.42                          | 2.90               | 3.10 | 19.520                          |                                                              |
|         | 2467                   | 14.39                      | 14.04 |                                       | 14.39                          | 2.90               | 3.10 | 17.290                          |                                                              |
|         | 2472                   | 11.12                      | 11.06 |                                       | 11.12                          | 2.90               | 3.10 | 14.160                          |                                                              |

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

3. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

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| Mode              | Centre Frequency<br>(MHz) | Average Output<br>Power (dBm) |       | Duty cycle<br>factor (dB)<br>10log<br>(1/x) | Total Average<br>Output Power<br>Note 2 (dBm) | Directional<br>Gain Note<br>3 (dBi) | Average<br>Output Power<br>(E.I.R.P) Note 4<br>(dBm) | Limit                                                           |
|-------------------|---------------------------|-------------------------------|-------|---------------------------------------------|-----------------------------------------------|-------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|
|                   |                           | Aux                           | Main  |                                             |                                               |                                     |                                                      |                                                                 |
| 802.11n-<br>HT20  | 2412                      | 14.18                         | 14.40 | N/A                                         | 17.30                                         | 3.00                                | 20.302                                               | <30dBm<br>(Maximum Peak<br>Output Power)<br><36dBm<br>(E.I.R.P) |
|                   | 2417                      | 16.49                         | 16.81 |                                             | 19.66                                         | 3.00                                | 22.663                                               |                                                                 |
|                   | 2422                      | 17.62                         | 17.70 |                                             | 20.67                                         | 3.00                                | 23.670                                               |                                                                 |
|                   | 2442                      | 17.72                         | 17.72 |                                             | 20.73                                         | 3.00                                | 23.730                                               |                                                                 |
|                   | 2457                      | 17.56                         | 17.55 |                                             | 20.57                                         | 3.00                                | 23.565                                               |                                                                 |
|                   | 2462                      | 14.31                         | 14.52 |                                             | 17.43                                         | 3.00                                | 20.427                                               |                                                                 |
|                   | 2467                      | 10.60                         | 10.47 |                                             | 13.55                                         | 3.00                                | 16.546                                               |                                                                 |
|                   | 2472                      | 5.41                          | 5.14  |                                             | 8.29                                          | 3.00                                | 11.287                                               |                                                                 |
| 802.11n-<br>HT40  | 2422                      | 13.93                         | 13.75 | N/A                                         | 16.85                                         | 3.00                                | 19.851                                               |                                                                 |
|                   | 2442                      | 14.63                         | 15.06 |                                             | 17.86                                         | 3.00                                | 20.861                                               |                                                                 |
|                   | 2452                      | 13.81                         | 14.21 |                                             | 17.02                                         | 3.00                                | 20.025                                               |                                                                 |
|                   | 2457                      | 8.70                          | 9.16  |                                             | 11.95                                         | 3.00                                | 14.946                                               |                                                                 |
|                   | 2462                      | 5.83                          | 5.55  |                                             | 8.70                                          | 3.00                                | 11.703                                               |                                                                 |
| 802.11ax-<br>HE20 | 2412                      | 14.15                         | 14.54 | N/A                                         | 17.36                                         | 3.00                                | 20.360                                               |                                                                 |
|                   | 2417                      | 16.62                         | 16.64 |                                             | 19.64                                         | 3.00                                | 22.640                                               |                                                                 |
|                   | 2422                      | 17.64                         | 17.72 |                                             | 20.69                                         | 3.00                                | 23.690                                               |                                                                 |
|                   | 2442                      | 17.84                         | 17.86 |                                             | 20.86                                         | 3.00                                | 23.860                                               |                                                                 |
|                   | 2457                      | 17.61                         | 17.58 |                                             | 20.61                                         | 3.00                                | 23.605                                               |                                                                 |
|                   | 2462                      | 14.72                         | 14.48 |                                             | 17.61                                         | 3.00                                | 20.612                                               |                                                                 |
|                   | 2467                      | 10.86                         | 10.68 |                                             | 13.78                                         | 3.00                                | 16.781                                               |                                                                 |
|                   | 2472                      | 5.58                          | 5.23  |                                             | 8.42                                          | 3.00                                | 11.419                                               |                                                                 |
| 802.11ax-<br>HE40 | 2422                      | 13.56                         | 13.87 | N/A                                         | 16.73                                         | 3.00                                | 19.728                                               |                                                                 |
|                   | 2442                      | 14.42                         | 14.71 |                                             | 17.58                                         | 3.00                                | 20.578                                               |                                                                 |
|                   | 2452                      | 13.23                         | 13.69 |                                             | 16.48                                         | 3.00                                | 19.476                                               |                                                                 |
|                   | 2457                      | 8.56                          | 9.03  |                                             | 11.81                                         | 3.00                                | 14.812                                               |                                                                 |
|                   | 2462                      | 5.19                          | 5.31  |                                             | 8.26                                          | 3.00                                | 11.261                                               |                                                                 |

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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| Mode          | Centre Frequency (MHz) | RU Configuration | Average Output Power (dBm) |       | Duty cycle factor (dB) 10log | Total Average Output Power Note 2 (dBm) | Directional Gain Note 3 (dBi) | Average Output Power (E.I.R.P.) Note 4 | Limit                                                        |
|---------------|------------------------|------------------|----------------------------|-------|------------------------------|-----------------------------------------|-------------------------------|----------------------------------------|--------------------------------------------------------------|
|               |                        |                  | Aux                        | Main  |                              |                                         |                               |                                        |                                                              |
| 802.11ax-HE20 | 2412                   | 26/30            | 17.33                      | 17.46 | 0.264                        | 20.670                                  | 3.00                          | 23.670                                 | <30dBm<br>(Maximum Peak Output Power)<br><36dBm<br>(E.I.R.P) |
|               |                        | 52/37            | 17.70                      | 17.78 | 0.137                        | 20.887                                  | 3.00                          | 23.887                                 |                                                              |
|               |                        | 106/53           | 17.81                      | 17.93 | 0.000                        | 20.881                                  | 3.00                          | 23.881                                 |                                                              |
|               | 2472                   | 26/8             | 4.99                       | 5.12  | 0.264                        | 8.330                                   | 3.00                          | 11.330                                 |                                                              |
|               |                        | 52/40            | 5.86                       | 5.95  | 0.137                        | 9.053                                   | 3.00                          | 12.053                                 |                                                              |
|               |                        | 106/54           | 6.13                       | 6.05  | 0.000                        | 9.100                                   | 3.00                          | 12.100                                 |                                                              |
| 802.11ax-HE40 | 2422                   | 242/61           | 14.39                      | 14.32 | 0.114                        | 17.479                                  | 3.00                          | 20.479                                 |                                                              |
|               | 2462                   | 242/62           | 6.19                       | 6.11  | 0.114                        | 9.274                                   | 3.00                          | 12.274                                 |                                                              |

Note: 1. The results have been included cable loss.

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Directional gain =  $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$  dBi

2400MHz: Directional gain =  $10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24$  dBi

2450MHz: Directional gain =  $10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10$  dBi

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4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).